

# Antoni Planes

## List of Publications by Year in descending order

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297  
papers

17,826  
citations

18887

64  
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301  
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301  
docs citations

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times ranked

5996  
citing authors



#	ARTICLE	IF	CITATIONS
19	Colossal Elastocaloric Effect in Ferroelastic Ni-Mn-Ti Alloys. <i>Physical Review Letters</i> , 2019, 122, 255703.	2.9	245
20	Colossal barocaloric effects near room temperature in plastic crystals of neopentylglycol. <i>Nature Communications</i> , 2019, 10, 1803.	5.8	144
21	Criticality in failure under compression: Acoustic emission study of coal and charcoal with different microstructures. <i>Physical Review E</i> , 2019, 99, 033001.	0.8	22
22	Avalanche mixing and the simultaneous collapse of two media under uniaxial stress. <i>Physical Review E</i> , 2019, 99, 023002.	0.8	10
23	Influence of the number of orientational domains on avalanche criticality in ferroelastic transitions. <i>Physical Review E</i> , 2019, 100, 062115.	0.8	5
24	Relations between stress drops and acoustic emission measured during mechanical loading. <i>Physical Review Materials</i> , 2019, 3, .	0.9	11
25	Giant barocaloric effect in all-metal Heusler shape memory alloys. <i>Physical Review Materials</i> , 2019, 3, .	0.9	55
26	Special Issue on Caloric materials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 070201.	1.3	4
27	Multicaloric materials and effects. <i>MRS Bulletin</i> , 2018, 43, 295-299.	1.7	76
28	Coexistence of a well-determined kinetic law and a scale-invariant power law during the same physical process. <i>Physical Review B</i> , 2018, 97, .	1.1	7
29	Multiferroic and Related Hysteretic Behavior in Ferromagnetic Shape Memory Alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700327.	0.7	1
30	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
31	Intermittent dynamics in externally driven ferroelastics and strain glasses. <i>Physical Review E</i> , 2018, 98, .	0.8	9
32	A multicaloric cooling cycle that exploits thermal hysteresis. <i>Nature Materials</i> , 2018, 17, 929-934.	13.3	158
33	Acoustic emission avalanches during compression of granular manganites. <i>Applied Physics Letters</i> , 2018, 112, 251906.	1.5	5
34	Experimental Evidence of Accelerated Seismic Release without Critical Failure in Acoustic Emissions of Compressed Nanoporous Materials. <i>Physical Review Letters</i> , 2018, 120, 245501.	2.9	34
35	Caloric response of $\text{FeMnIn}$ subjected to uniaxial load and magnetic field. <i>Physical Review Materials</i> , 2018, 2, .	0.9	10
36	Large and reversible elastocaloric effect near room temperature in a Ga-doped NiMnIn metamagnetic shape-memory alloy. <i>Functional Materials Letters</i> , 2017, 10, 1740007.	0.7	8

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37	Reversibility of minor hysteresis loops in magnetocaloric Heusler alloys. Applied Physics Letters, 2017, 110, .	1.5	42
38	Geometrical model for martensitic phase transitions: Understanding criticality and weak universality during microstructure growth. Physical Review E, 2017, 95, 013001.	0.8	7
39	Giant multicaloric response of bulk $\text{Fe}_{1-x}\text{Ni}_x\text{Mn}_{1-y}\text{Co}_y$ alloys. Physical Review B, 2017, 95, .	1.9	50
40	Materials with Giant Mechanocaloric Effects: Cooling by Strength. Advanced Materials, 2017, 29, 1603607.	11.1	304
41	Analysis of crackling noise using the maximum-likelihood method: Power-law mixing and exponential damping. Physical Review E, 2017, 96, 042122.	0.8	56
42	Giant barocaloric effects over a wide temperature range in superionic conductor AgI. Nature Communications, 2017, 8, 1851.	5.8	95
43	Avalanche criticality in thermal-driven martensitic transitions: the asymmetry of the forward and reverse transitions in shape-memory materials. Journal of Physics Condensed Matter, 2017, 29, 334001.	0.7	11
44	Enhanced caloric effect induced by magnetoelastic coupling in NiMnGaCu Heusler alloys: Experimental study and theoretical analysis. Physical Review B, 2017, 96, .	1.1	31
45	Thermodynamics of multicaloric effects in multiferroic materials: application to metamagnetic shape-memory alloys and ferrotoroidics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150304.	1.6	23
46	Elastocaloric effect in Ti-Ni shape-memory wires associated with the B2 $\rightarrow$ B19' and B2 $\rightarrow$ R structural transitions. Applied Physics Letters, 2016, 108, .	1.5	53
47	Inverse barocaloric effects in ferroelectric BaTiO <sub>3</sub> ceramics. APL Materials, 2016, 4, .	2.2	64
48	Fracking and labquakes. Philosophical Magazine, 2016, 96, 3686-3696.	0.7	15
49	Avalanche criticalities and elastic and calorimetric anomalies of the transition from cubic Cu-Al-Ni to a mixture of $\text{Cu}_2\text{AlNi}$ and $\text{CuAlNi}$ . Physical Review B, 2016, 94, .	1.4	24
50	Mechanocaloric effects in shape memory alloys. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150310.	1.6	31
51	Avalanche criticality during compression of porcine cortical bone of different ages. Physical Review E, 2016, 93, 053001.	0.8	22
52	Expanding the magnetocaloric operation range in Ni <sub>2</sub> Mn <sub>1-x</sub> In Heusler alloys by Cu-doping. Journal Physics D: Applied Physics, 2016, 49, 125006.	1.3	13
53	Avalanches in compressed Ti-Ni shape-memory porous alloys: An acoustic emission study. Physical Review E, 2015, 91, 060401.	0.8	39
54	Reversible adiabatic temperature changes at the magnetocaloric and barocaloric effects in Fe <sub>49</sub> Rh <sub>51</sub> . Applied Physics Letters, 2015, 107, .	1.5	80

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55	Caloric and Multicaloric Effects in Shape Memory Alloys. <i>Materials Today: Proceedings</i> , 2015, 2, S477-S484.	0.9	22
56	Giant barocaloric effects at low pressure in ferroelectric ammonium sulphate. <i>Nature Communications</i> , 2015, 6, 8801.	5.8	160
57	Modelling Shape-Memory Effects in Ferromagnetic Alloys. <i>Shape Memory and Superelasticity</i> , 2015, 1, 347-358.	1.1	3
58	Tailoring barocaloric and magnetocaloric properties in low-hysteresis magnetic shape memory alloys. <i>Acta Materialia</i> , 2015, 96, 324-332.	3.8	89
59	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
60	Localizing sources of acoustic emission during the martensitic transformation. <i>Physical Review B</i> , 2014, 89, .	1.1	34
61	Modelling magnetostructural textures in magnetic shape-memory alloys: Strain and magnetic glass behaviour. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2080-2087.	0.7	6
62	Avalanches in compressed porous $\text{SiO}_2$ -based materials. <i>Physical Review E</i> , 2014, 90, 022405.	0.8	76
63	Avalanche correlations in the martensitic transition of a $\text{CuZnAl}$ shape memory alloy: analysis of acoustic emission and calorimetry. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 125401.	0.7	31
64	Barocaloric effect in metamagnetic shape memory alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2114-2119.	0.7	31
65	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
66	Thermodynamics of multicaloric effects in multiferroics. <i>Philosophical Magazine</i> , 2014, 94, 1893-1908.	0.7	66
67	Nanoscale oxides shape up. <i>Nature Materials</i> , 2014, 13, 6-8.	13.3	9
68	Thermodynamics of Multiferroic Materials. <i>Springer Series in Materials Science</i> , 2014, , 73-108.	0.4	2
69	Barocaloric and magnetocaloric effects in $\text{Fe}_{49}\text{Mn}_{51}$ . <i>Physical Review B</i> , 2014, 89, .	1.1	14
70	Predicting failure: acoustic emission of berlinite under compression. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 275401.	0.7	44
71	Advanced materials for solid-state refrigeration. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4925.	5.2	320
72	Acoustic emission in martensitic transformations. <i>Journal of Alloys and Compounds</i> , 2013, 577, S699-S704.	2.8	55

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73	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
74	Statistical Similarity between the Compression of a Porous Material and Earthquakes. <i>Physical Review Letters</i> , 2013, 110, 088702.	2.9	213
75	Giant Electrocaloric Strength in Single-Crystal BaTiO <sub>3</sub> . <i>Advanced Materials</i> , 2013, 25, 1360-1365.	11.1	430
76	Elastocaloric and magnetocaloric effects in Ni-Mn-Sn(Cu) shape-memory alloy. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	109
77	Precursor Nanoscale Textures in Ferroelastics: Interplay between Anisotropy and Disorder. <i>Materials Science Forum</i> , 2013, 738-739, 155-159.	0.3	3
78	Noise of collapsing minerals: Predictability of the compressional failure in goethite mines. <i>American Mineralogist</i> , 2013, 98, 609-615.	0.9	53
79	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
80	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
81	Crackling noise during failure of alumina under compression: the effect of porosity. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 292202.	0.7	48
82	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
83	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
84	Ginzburg-Landau modelling of precursor nanoscale textures in ferroelastic materials. <i>Continuum Mechanics and Thermodynamics</i> , 2012, 24, 619-627.	1.4	8
85	Thermodynamics of ferrotoroidic materials: Toroidocaloric effect. <i>Physical Review B</i> , 2012, 85, .	1.1	26
86	Barocaloric effect in the magnetocaloric prototype Gd <sub>5</sub> Si <sub>2</sub> Ge <sub>2</sub> . <i>Applied Physics Letters</i> , 2012, 101, 071906.	1.5	127
87	Precursor Nanoscale Textures in Ferroelastic Martensites. <i>Springer Series in Materials Science</i> , 2012, , 227-247.	0.4	7
88	Caloric effects induced by magnetic and mechanical fields in a Ni <sub>50</sub> Mn	1.1	70
89	Inverse barocaloric effect in the giant magnetocaloric LaFeSiCo compound. <i>Nature Communications</i> , 2011, 2, 595.	5.8	175
90	Temperature contour maps at the strain-induced martensitic transition of a CuZnAl shape-memory single crystal. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	55

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91	Imaging the dynamics of martensitic transitions using acoustic emission. <i>Physical Review B</i> , 2011, 84, .	1.1	20
92	Failure mechanism in porous materials under compression: crackling noise in mesoporous SiO <sub>2</sub> . <i>Philosophical Magazine Letters</i> , 2011, 91, 554-560.	0.5	68
93	Avalanche criticality in the martensitic transition of $Cu_{1-x}Mn_x$ shape-memory alloy. <i>Physical Review B</i> , 2010, 81, .	1.1	114
94	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
95	Thermodynamics of stress-induced ferroelastic transitions: Influence of anisotropy and disorder. <i>Physical Review B</i> , 2010, 81, .	1.1	11
96	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
97	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
98	Fe and Co selective substitution in Ni <sub>2</sub> MnGa: Effect of magnetism on relative phase stability. <i>Philosophical Magazine</i> , 2010, 90, 2771-2792.	0.7	86
99	Lattice dynamics in magnetic superelastic Ni-Mn-In alloys: Neutron scattering and ultrasonic experiments. <i>Physical Review B</i> , 2009, 79, .	1.1	42
100	Driving-induced crossover in the avalanche criticality of martensitic transitions. <i>Physical Review B</i> , 2009, 80, .	1.1	25
101	Premartensitic transition in Ni <sub>2</sub> MnGa alloys: Acoustic emission study. <i>Physical Review B</i> , 2009, 80, .	1.1	46
102	Jerky elasticity: Avalanches and the martensitic transition in Cu <sub>74.08</sub> Al <sub>23.13</sub> Be <sub>2.79</sub> shape-memory alloy. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	55
103	Glassy behavior in martensites: Interplay between elastic anisotropy and disorder in zero-field-cooling/field-cooling simulation experiments. <i>Physical Review B</i> , 2009, 80, .	1.1	41
104	Mechanical resonance of the austenite/martensite interface and the pinning of the martensitic microstructures by dislocations in Cu <sub>74.08</sub> Al <sub>23.13</sub> Be <sub>2.79</sub> shape-memory alloy. <i>Physical Review B</i> , 2009, 80, .	1.1	46
105	An acoustic emission study of the effect of a magnetic field on the martensitic transition in Ni <sub>2</sub> MnGa. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	21
106	Structural properties and magnetic interactions in martensitic Ni-Mn-Sb alloys. <i>Philosophical Magazine</i> , 2009, 89, 2093-2109.	0.7	53
107	Ferroelastic Nanostructures and Nanoscale Transitions: Ferroics with Point Defects. <i>MRS Bulletin</i> , 2009, 34, 838-846.	1.7	49
108	THE USE OF SHAPE-MEMORY ALLOYS FOR MECHANICAL REFRIGERATION. <i>Functional Materials Letters</i> , 2009, 02, 73-78.	0.7	59

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109	Comment on "The Magnetocaloric Effect of $\text{La}_{11.6}\text{Si}_{1.4}$ , $\text{La}_{0.8}\text{Nd}_{0.2}\text{Fe}_{11.5}\text{Si}_{1.5}$ , and $\text{Ni}_{43}\text{Mn}_{46}\text{Sn}_{11}$ Compounds in the Vicinity of the First-Order Phase Transition". <i>Advanced Materials</i> , 2009, 21, 3725-3726.	11.1	18
110	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
111	Magnetic correlations in martensitic Ni-Mn-based Heusler shape-memory alloys: Neutron polarization analysis. <i>Physical Review B</i> , 2009, 79, .	1.1	233
112	Magnetocaloric effect in ferromagnetic Heusler shape-memory alloys. <i>Journal of Physics: Conference Series</i> , 2009, 165, 012050.	0.3	3
113	In-situ observations of a martensitic transformation in a $\text{CuZnAl}$ single crystal driven by stress or strain. <i>Journal of Materials Science</i> , 2008, 43, 3832-3836.	1.7	5
114	Lattice dynamics of $\text{NiMnAl}$ Heusler alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 227-230.	2.6	2
115	The physics of the boson peak in Cu-based shape-memory alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 194-196.	2.6	1
116	$\text{NiMn}$ -based magnetic shape memory alloys: Magnetic properties and martensitic transition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 49-56.	2.6	44
117	Learning through cycling in martensitic phase transitions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 223-226.	2.6	1
118	Phase diagram of Fe-doped Ni-Mn-Ga ferromagnetic shape-memory alloys. <i>Physical Review B</i> , 2008, 77, .	1.1	59
119	Effects of hydrostatic pressure on the magnetism and martensitic transition of $\text{NiMnIn}$ magnetic superelastic alloys. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	126
120	Acoustic emission in the fcc-fct martensitic transition of $\text{Fe}_{11}\text{Mn}_{68.8}$ . <i>Physical Review B</i> , 2008, 78, .	1.1	32
121	Martensitic transformation $B_2R$ in $\text{NiTiFe}$ : experimental determination of the Landau potential and quantum saturation of the order parameter. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 275216.	0.7	23
122	Elastocaloric Effect Associated with the Martensitic Transition in Shape-Memory Alloys. <i>Physical Review Letters</i> , 2008, 100, 125901.	2.9	421
123	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
124	Magnetocaloric and Shape-Memory Properties in Magnetic Heusler Alloys. <i>Advanced Materials Research</i> , 2008, 52, 221-228.	0.3	12
125	Acoustic emission and energy dissipation during front propagation in a stress-driven martensitic transition. <i>Physical Review B</i> , 2008, 78, .	1.1	37
126	Influence of Elastic Anisotropy on Structural Nanoscale Textures. <i>Physical Review Letters</i> , 2008, 100, 165707.	2.9	141



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127	Combined Experimental and Theoretical Investigation of the Premartensitic Transition in $\text{Ni}_2\text{MnGa}$ . Physical Review Letters, 2008, 100, 165703.	2.9	112
128	Spatially correlated disorder in self-organized precursor magnetic nanostructures. Physical Review B, 2007, 76, .	1.1	2
129	Tailoring magnetic and magnetocaloric properties of martensitic transitions in ferromagnetic Heusler alloys. Applied Physics Letters, 2007, 91, .	1.5	110
130	Hysteresis in a system driven by either generalized force or displacement variables: Martensitic phase transition in single-crystalline $\text{CuZnAl}$ . Physical Review B, 2007, 76, .	1.1	28
131	Magnetization easy axis in martensitic Heusler alloys estimated by strain measurements under magnetic field. Applied Physics Letters, 2007, 91, 251915.	1.5	49
132	Effect of Co and Fe on the inverse magnetocaloric properties of Ni-Mn-Sn. Journal of Applied Physics, 2007, 102, .	1.1	174
133	Magnetic superelasticity and inverse magnetocaloric effect in Ni-Mn-In. Physical Review B, 2007, 75, .	1.1	462
134	Contribution of low-frequency modes to the specific heat of Cu-Zn-Al shape-memory alloys. Physical Review B, 2007, 75, .	1.1	13
135	Cooling and heating by adiabatic magnetization in the $\text{Ni}_{50}\text{Mn}_{34}\text{In}_{16}$ magnetic shape-memory alloy. Physical Review B, 2007, 75, .	1.1	156
136	Magnetocaloric effect in metamagnetic systems. Physical Review B, 2007, 76, .	1.1	14
137	Magnetocaloric effect in Heusler shape-memory alloys. Journal of Magnetism and Magnetic Materials, 2007, 310, 2767-2769.	1.0	68
138	Electronic aspects of the martensitic transition in $\text{NiMn}$ based Heusler alloys. Journal of Magnetism and Magnetic Materials, 2007, 310, 2788-2789.	1.0	123
139	Spatially correlated disorder in striped precursor magnetic modulations. Journal of Magnetism and Magnetic Materials, 2007, 310, 2641-2643.	1.0	1
140	Calorimetric study of the inverse magnetocaloric effect in ferromagnetic $\text{NiMnSn}$ . Journal of Magnetism and Magnetic Materials, 2007, 316, e572-e574.	1.0	58
141	Lattice dynamics and phonon softening in $\text{NiMnAl}$ Heusler alloys. Physical Review B, 2006, 73, .	1.1	30
142	Ferromagnetism in the austenitic and martensitic states of $\text{NiMnIn}$ alloys. Physical Review B, 2006, 73, .	1.1	570
143	Coupling between lattice vibrations and magnetism in Ising-like systems. Physical Review B, 2006, 73, .	1.1	11
144	Hysteresis in Shape-Memory Materials. , 2006, , 467-553.		7

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145	Martensitic transition and magnetic properties in Ni-Mn-X alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 911-915.	2.6	104
146	Magnetostructural tweed in ferromagnetic Heusler shape-memory alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 916-918.	2.6	4
147	Ferromagnetic Shape-Memory Alloys. <i>Materials Science Forum</i> , 2006, 512, 145-152.	0.3	20
148	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
149	Acoustic emission across the magnetostructural transition of the giant magnetocaloric Gd <sub>5</sub> Si <sub>2</sub> Ge <sub>2</sub> . <i>Physical Review B</i> , 2006, 73, .	1.1	20
150	Inverse magnetocaloric effect in ferromagnetic Ni-Mn-Sn alloys. <i>Nature Materials</i> , 2005, 4, 450-454.	13.3	1,757
151	Precursor nanoscale modulations in ferromagnets: Modeling and thermodynamic characterization. <i>Physical Review B</i> , 2005, 72, .	1.1	8
152	Specific heat of single-crystal HfV <sub>2</sub> : Strong-coupling conventional superconductivity and the effect of the martensitic transition. <i>Physical Review B</i> , 2005, 72, .	1.1	9
153	Direct observation of the magnetic-field-induced entropy change in Gd <sub>5</sub> (Si <sub>1-x</sub> Ge <sub>x</sub> ) <sub>4</sub> giant magnetocaloric alloys. <i>Applied Physics Letters</i> , 2005, 86, 262504.	1.5	53
154	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
155	Elastic constants of Ni-Mn-Ga magnetic shape memory alloys. <i>Physical Review B</i> , 2004, 70, .	1.1	59
156	Effect of a magnetic field on the magnetostructural phase transition in Gd <sub>5</sub> (Si <sub>1-x</sub> Ge <sub>x</sub> ) <sub>4</sub> . <i>Physical Review B</i> , 2004, 69, .	1.1	44
157	Magnetocaloric and shape-memory effects in Ni-Mn-Ga ferro-magnetic alloys. <i>European Physical Journal Special Topics</i> , 2004, 115, 105-110.	0.2	5
158	Kinetics of martensitic transitions in shape-memory alloys. <i>Scripta Materialia</i> , 2004, 50, 181-186.	2.6	43
159	Dynamics of the first-order magnetostructural transition in Gd <sub>5</sub> (Si <sub>x</sub> Ge <sub>1-x</sub> ) <sub>4</sub> . <i>European Physical Journal B</i> , 2004, 40, 427-431.	0.6	23
160	Magnetic shape memory in Ni-Mn-Ga and Ni-Mn-Al. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 2090-2092.	1.0	17
161	Criticality in Cu-Al-Mn hysteresis loops. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E515-E516.	1.0	3
162	Magnetic field induced entropy change and magnetoelasticity in Ni-Mn-Ga alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1595-E1596.	1.0	4

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163	A simple lattice model for hysteresis loops with exchange bias. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 703-704.	1.0	1
164	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
165	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
166	Origin of Magnetic and Magnetoelastic Tweedlike Precursor Modulations in Ferrioc Materials. Physical Review Letters, 2004, 92, 197203.	2.9	46
167	Kinetics of martensitic transitions in Cu-Al-Mn under thermal cycling: Analysis at multiple length scales. Physical Review B, 2004, 69, .	1.1	58
168	Driving Rate Effects in Avalanche-Mediated First-Order Phase Transitions. Physical Review Letters, 2004, 93, 195701.	2.9	75
169	Multiscale origin of the magnetocaloric effect in Ni-Mn-Ga shape-memory alloys. Physical Review B, 2003, 68, .	1.1	171
170	Low-temperature entropy in Cu-based shape-memory alloys and the boson peak. Physical Review B, 2003, 68, .	1.1	16
171	Statistical mechanics in the extended Gaussian ensemble. Physical Review E, 2003, 68, 056113.	0.8	32
172	Modulated phases in multi-stage structural transformations. Physical Review B, 2003, 67, .	1.1	20
173	Disorder-induced critical phenomena in magnetically glassy Cu-Al-Mn alloys. Physical Review B, 2003, 67, .	1.1	17
174	A high-sensitivity differential scanning calorimeter with magnetic field for magnetostructural transitions. Review of Scientific Instruments, 2003, 74, 4768-4771.	0.6	61
175	Magnetic properties and martensitic transition in annealed Ni <sub>50</sub> Mn <sub>30</sub> Al <sub>20</sub> . Journal of Applied Physics, 2003, 93, 8498-8500.	1.1	55
176	The effect of DO <sub>3</sub> /L <sub>21</sub> 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
177	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
178	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
179	Change in entropy at a first-order magnetoelastic phase transition: Case study of Gd <sub>5</sub> (SixGe <sub>1-x</sub> ) <sub>4</sub> giant magnetocaloric alloys. Journal of Applied Physics, 2003, 93, 8313-8315.	1.1	19
180	Metastable random-field Ising model with exchange enhancement: A simple model for exchange bias. Physical Review B, 2002, 66, .	1.1	12

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