

Shane Stadler

List of Publications by Year in descending order

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120
papers

3,835
citations

147801
31
h-index

138484
58
g-index

125
all docs

125
docs citations

125
times ranked

1980
citing authors

#	ARTICLE	IF	CITATIONS
19	On entropy determination from magnetic and calorimetric experiments in conventional giant magnetocaloric materials. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	20
20	Magnetostructural transitions and magnetocaloric effects in Ni50Mn35In14.25B0.75 ribbons. <i>AIP Advances</i> , 2018, 8, 056434.	1.3	8
21	Magnetic and magnetocaloric properties of Ni-Mn-Cr-Sn Heusler alloys under the effects of hydrostatic pressure. <i>AIP Advances</i> , 2018, 8, .	1.3	4
22	Barocaloric and magnetocaloric effects in $(\text{MnNiSi})_{1-x}(\text{FeCoGe})_x$. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	65
23	Effects of annealing on the magnetic properties and magnetocaloric effects of B doped Ni-Mn-In melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 2018, 731, 678-684.	5.5	17
24	Kinetic effects in the magnetic and magnetocaloric properties of metamagnetic Ni50Mn35In14.25B0.75. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 98-101.	2.3	7
25	Tuning martensitic transitions in $(\text{MnNiSi})_{0.65}(\text{Fe2Ge})_{0.35}$ through heat treatment and hydrostatic pressure. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	14
26	Magnetic and martensitic transformations in Ni48Co2Mn35In15 melt-spun ribbons. <i>AIP Advances</i> , 2018, 8, 101410.	1.3	1
27	Microwave absorption through the martensitic and Curie transitions in Ni45Cr5Mn37In13. <i>AIP Advances</i> , 2018, 8, .	1.3	3
28	Effect of Bi substitution on the magnetic and magnetocaloric properties of Ni50Mn35In15-xBix Heusler alloys. <i>AIP Advances</i> , 2018, 8, 056409.	1.3	6
29	Critical behavior in Ni2MnGa and Ni2Mn0.85Cu0.15Ga. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	6
30	Specific heat and the influence of hydrostatic pressure on the phase transitions in Ni50Mn35In14.25B0.75. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 463, 19-22.	2.3	3
31	The influence of hydrostatic pressure on the magnetic and magnetocaloric properties of DyRu2Si2. <i>Journal of Applied Physics</i> , 2017, 121, 045101.	2.5	3
32	Effects of the partial substitution of Ni by Cr on the transport, magnetic, and magnetocaloric properties of Ni50Mn37In13. <i>AIP Advances</i> , 2017, 7, .	1.3	6
33	Magnetocaloric effects and transport properties of rare-earth (R=La, Pr, Sm) doped Ni50-xRxMn35Sn15 Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2017, 717, 254-259.	5.5	15
34	Giant field-induced adiabatic temperature changes in In-based off-stoichiometric Heusler alloys. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	20
35	Magnetic, structural and magnetocaloric properties of Ni-Si and Ni-Al thermoseeds for self-controlled hyperthermia. <i>International Journal of Hyperthermia</i> , 2017, 33, 1-6.	2.5	3
36	Magnetostructural phase transitions and magnetocaloric effects in as-cast Mn1-xAlxCoGe compounds. <i>Journal of Alloys and Compounds</i> , 2017, 709, 142-146.	5.5	43

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37	Thermosensitive Ni-based magnetic particles for self-controlled hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 200-205.	2.3	13
38	Inverse magnetocaloric effects in metamagnetic Ni-Mn-In-based alloys in high magnetic fields. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3348-3352.	5.5	27
39	The effects of hydrostatic pressure on the martensitic transition, magnetic, and magnetocaloric effects of Ni ₄₅ Mn ₄₃ Co ₂ Sn ₁₁ . <i>MRS Communications</i> , 2017, 7, 885-890.	1.8	9
40	Magnetocaloric, thermal, and magnetotransport properties of Ni ₅₀ Mn ₃₅ In _{13.9} B _{1.1} Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 444, 98-101.	2.3	14
41	Large Inverse Magnetocaloric Effects and Giant Magnetoresistance in Ni-Mn-Cr-Sn Heusler Alloys. <i>Magnetochemistry</i> , 2017, 3, 3.	2.4	25
42	Controlling the microstructure and associated magnetic properties of Ni _{0.2} Mn _{3.2} Ga _{0.6} melt-spun ribbons by annealing. <i>AIP Advances</i> , 2017, 7, 056230.	1.3	0
43	Phase Transitions and Magnetocaloric Properties in MnCo _{1-x} Zr _x Ge Compounds. <i>Advances in Condensed Matter Physics</i> , 2017, 2017, 1-6.	1.1	12
44	The effects of substituting Ag for In on the magnetoresistance and magnetocaloric properties of Ni-Mn-In Heusler alloys. <i>AIP Advances</i> , 2016, 6, .	1.3	17
45	Phase transitions and magnetocaloric and transport properties in off-stoichiometric GdNi ₂ Mnx. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	15
46	Magnetic and magneto-transport studies of substrate effect on the martensitic transformation in a NiMnIn shape memory alloy. <i>AIP Advances</i> , 2016, 6, .	1.3	8
47	Giant reversible inverse magnetocaloric effects in Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2016, 683, 139-142.	5.5	34
48	Synthesis and anisotropic properties of single crystalline Ln ₂ Ru ₃ Al ₁₅₊ (Ln=Gd, Tb). <i>Journal of Solid State Chemistry</i> , 2016, 236, 186-194.	2.9	1
49	Comparing magnetostructural transitions in Ni ₅₀ Mn _{18.75} Cu _{6.25} Ga ₂₅ and Ni _{49.80} Mn _{34.66} In _{15.54} Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 1145-1149.	2.3	12
50	Peculiarities of Giant Magnetocaloric Effect in Ni ₅₀ Mn ₃₅ In ₁₅ Alloys in the Vicinity of Martensitic Transition. <i>Physics Procedia</i> , 2015, 75, 1353-1359.	1.2	4
51	Phase diagram and magnetocaloric effects in Ni _{1-x} Cr _x MnGe _{1.05} . <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	6
52	Strategic Crystal Growth and Physical Properties of Single-Crystalline LnCo ₂ Al ₈ (Ln = La, Nd, Sm, Yb). <i>Crystal Growth and Design</i> , 2015, 15, 3293-3298.	3.0	10
53	Effects of hydrostatic pressure on magnetostructural transitions and magnetocaloric properties in (MnNiSi) _{1-x} (FeCoGe) _x . <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	51
54	Hydrostatic pressure-induced modifications of structural transitions lead to large enhancements of magnetocaloric effects in MnNiSi-based systems. <i>Physical Review B</i> , 2015, 91, .	3.2	100

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55	Influence of copper substitution on the magnetic and magnetocaloric properties of NiMnInB alloys. Journal of Applied Physics, 2015, 117, .	2.5	8	
56	Multifunctional properties related to magnetostructural transitions in ternary and quaternary Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 383, 186-189.	2.3	63	
57	Phase diagram and magnetocaloric effects in Ni50Mn35($\text{In}_{1-x}\text{Cr}_x$)15 and ($\text{Mn}_{1-x}\text{Cr}_x$) $\text{NiGe}_{1.05}$ alloys. Journal of Applied Physics, 2014, 115, 17A922.	2.5	12	
58	Asymmetric magnetoresistance in bulk In-based off-stoichiometric Heusler alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1000-1003.	0.8	9	
59	Asymmetric switchinglike behavior in the magnetoresistance at low fields in bulk metamagnetic Heusler alloys. Physical Review B, 2014, 90, .	3.2	25	
60	Filling in the Holes: Structural and Magnetic Properties of the Chemical Pressure Stabilized $\text{LnMn}_{\langle 1-x \rangle} \text{Ga}_{3}$ ($\text{Ln} = \text{Ho, Tm}$; $x < 0.15$). Chemistry of Materials, 2014, 26, 1170-1179.	6.7	20	
61	Field-pulse memory in a spin-glass. Applied Physics Letters, 2013, 103, .	3.3	12	
62	Magnetic properties and phase transitions of gadolinium-infused carbon nanotubes. Journal of Applied Physics, 2013, 113, .	2.5	5	
63	Phase diagram and magnetocaloric effects in aluminum doped MnNiGe alloys. Journal of Applied Physics, 2013, 114, .	2.5	45	
64	Tuning properties of columnar nanocomposite oxides. Applied Physics Letters, 2013, 103, 043112.	3.3	10	
65	Large magnetocaloric effects due to the coincidence of martensitic transformation with magnetic changes below the second-order magnetic phase transition in $\text{Mn}_{1-x}\text{Fe}_{x}\text{CoGe}$. Journal of Magnetism and Magnetic Materials, 2013, 330, 88-90.	2.3	17	
66	Enhancement of ferromagnetism by Cr doping in Ni-Mn-Cr-Sb Heusler alloys. Applied Physics Letters, 2013, 102, 112402.	3.3	40	
67	Structural Complexity Meets Transport and Magnetic Anisotropy in Single Crystalline $\text{Ln}_{30}\text{Ru}_{4}\text{Sn}_{31}$ ($\text{Ln} = \text{Gd, Dy}$). Journal of the American Chemical Society, 2013, 135, 2748-2758.	13.7	9	
68	$\text{Mn}_{1-x}\text{Fe}_{x}\text{CoGe}$: A strongly correlated metal in the proximity of a noncollinear ferromagnetic state. Applied Physics Letters, 2013, 103, 042408.	3.3	23	
69	Large magnetocaloric effects over a wide temperature range in $\text{MnCo}_{1-x}\text{Zn}_{x}\text{Ge}$. Journal of Applied Physics, 2013, 113, .	2.5	33	
70	Phase Transitions, Magnetotransport and Magnetocaloric Effects in a New Family of Quaternary $\text{Ni}_{x}\text{Mn}_{1-x}\text{In}_{1-x}\text{Z}$ Heusler Alloys. Journal of Nanoscience and Nanotechnology, 2012, 12, 7426-7431.	0.9	17	
71	Magnetostructural phase transitions and magnetocaloric effects in $\text{MnNiGe}_{1-x}\text{Al}_x$. Applied Physics Letters, 2012, 100, .	3.3	84	
72	Giant magnetocaloric effects near room temperature in $\text{Mn}_{1-x}\text{Cu}_x\text{CoGe}$. Applied Physics Letters, 2012, 101, .	3.3	118	

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73	Induced magnetic anisotropy and spin polarization in pulsed laser-deposited Co ₂ MnSb thin films. Journal of Applied Physics, 2012, 111, 023903.	2.5	2
74	Magnetocaloric effect and multifunctional properties of Ni-Mn-based Heusler alloys. Journal of Magnetism and Magnetic Materials, 2012, 324, 3530-3534.	2.3	73
75	The role of Ni-Mn hybridization on the martensitic phase transitions in Mn-rich Heusler alloys. Applied Physics Letters, 2012, 100, .	3.3	61
76	The Adiabatic Temperature Changes in the Vicinity of the First-Order Paramagnetic-Ferromagnetic Transition in the Ni-Mn-In-B Heusler Alloy. IEEE Transactions on Magnetics, 2012, 48, 3738-3741.	2.1	7
77	The comparison of direct and indirect methods for determining the magnetocaloric parameters in the Heusler alloy Ni ₅₀ Mn _{34.8} In _{14.2} B. Applied Physics Letters, 2012, 100, 192402.	3.3	22
78	Temperature and field induced strain in polycrystalline Ni ₅₀ Mn ₃₅ In ₁₅ â?xSix magnetic shape memory Heusler alloys. Journal of Alloys and Compounds, 2011, 509, 1106-1110.	5.5	11
79	Effect of partial substitution of Ni by Co on the magnetic and magnetocaloric properties of Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloy. Journal of Applied Physics, 2011, 109, .	2.5	20
80	Magnetic and magnetocaloric properties of Gd ₆ X ₂ Si ₃ (X=Ni, Co) and Ln ₆ Co ₂ Si ₃ (Ln=Pr, La). Journal of Applied Physics, 2011, 109, .	2.5	12
81	Structure and properties of rhombohedral CePd ₃ Ga ₈ : A variant of the cubic parent compound with BaHg ₁₁ structure type. Journal of Solid State Chemistry, 2011, 184, 3185-3189.	2.9	6
82	Microwave magnetoelectric coupling and ferromagnetic resonance frequency tuning of a Co _x Mn _{1-x} Heusler alloy. Physical Review B, 2011, 83, .	3.2	26
83	The Effect of Partial Substitution of Ni by Co on the Magnetic and Electrical Properties of Ni _{50} {m Mn}{35}{m In}{15} Heusler Alloy. IEEE Transactions on Magnetics, 2010, 46, 1444-1446.	2.1	14
84	Influence of the small substitution of Z=Ni, Cu, Cr, V for Fe on the magnetic, magnetocaloric, and magnetoelastic properties of LaFe _{11.4} Si _{1.6} . Journal of Magnetism and Magnetic Materials, 2010, 322, 692-697.	2.3	32
85	Magnetism and magnetocaloric effects in Ni ₅₀ Mn ₃₅ â?xCoxIn ₁₅ Heusler alloys. Journal of Applied Physics, 2010, 107, .	2.5	30
86	Magnetoresistance and magnetocaloric effect at a structural phase transition from a paramagnetic martensitic state to a paramagnetic austenitic state in Ni ₅₀ Mn _{36.5} In _{13.5} Heusler alloys. Applied Physics Letters, 2010, 96, .	3.3	44
87	Large inverse magnetic entropy changes and magnetoresistance in the vicinity of a field-induced martensitic transformation in Ni ₅₀ â?xCoxMn ₃₂ â?yFeyGa ₁₈ . Applied Physics Letters, 2010, 97, .	3.3	48
88	X-ray magnetic circular dichroism of pulsed laser deposited Co ₂ MnSn and Co ₂ MnSb thin films grown on GaAs (001). Journal of Applied Physics, 2009, 105, 103907.	2.5	7
89	Magnetic and electrical properties of Ni ₅₀ Mn ₃₅ In ₁₅ â?xSix Heusler alloys. Journal of Applied Physics, 2009, 105, .	2.5	9
90	Magnetic and transport properties of Co ₂ MnSn _x Sb _{1-x} Heusler alloys. Journal of Applied Physics, 2009, 105, .	2.5	20

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91	Magnetic, magnetocaloric, and magnetoelastic properties of LaFe11.57Si1.43Bx compounds. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	11
92	Magnetic anisotropy of Co ₂ MnSn _{1-x} Sb _x thin films grown on GaAs (001). <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	3
93	Exchange Bias in Bulk Ni _{50} Mn _{35} In _{{15 - {m x}}} Si _{m x} Heusler Alloys. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3855-3857.	2.1	13
94	Exchange bias in bulk Ni-Mn-In-based Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 963-965.	2.3	88
95	The structural and magnetic properties of Ni ₂ Mn _{1-x} B _x Ga Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 29-33.	2.3	16
96	Magnetocaloric effects in Ni-Mn-X based Heusler alloys with X=Ga, Sb, In. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 754-757.	2.3	139
97	Effect of small changes in Mn concentration on phase transition temperatures and magnetic entropy variations in Ni ₂ Mn _{0.75} Cu _{0.25} Ga Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2009, 472, 35-39.	5.5	26
98	The effect of partial substitution of In by <i>i>X</i> = Si, Ge and Al on the crystal structure, magnetic properties and resistivity of Ni₅₀Mn₃₅In₁₅ Heusler alloys. <i>Journal Physics D: Applied Physics</i>, 2009, 42, 045004.</i>	2.8	38
99	Adaptive Mo ₂ N/MoS ₂ /Ag Tribological Nanocomposite Coatings for Aerospace Applications. <i>Tribology Letters</i> , 2008, 29, 95-103.	2.6	148
100	Magnetoresistance and field-induced structural transitions in Ni ₅₀ Mn _{50-x} Sn _x Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, L21-L25.	2.3	94
101	Magnetostructural phase transitions in Ni ₅₀ Mn _{25+x} Sb _{25-x} Heusler alloys. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 235204.	1.8	92
102	Effect of isoelectronic substitution on magnetic properties of Ni ₂ Mn(GaB) Heusler alloys. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 465209.	1.8	17
103	Intermartensitic transitions in Ni-Mn-Fe-Cu-Ga Heusler alloys. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 505206.	1.8	6
104	The effect of partial substitution of In by Si on the phase transitions and respective magnetic entropy changes of Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloy. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 202004.	2.8	55
105	Phase transitions and magnetoresistance in Ni ₅₀ Mn _{50-x} In _x Heusler alloys. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	53
106	Phase transitions and corresponding magnetic entropy changes in Ni ₂ Mn _{0.75} Cu _{0.25} -xCo _x Ga Heusler alloys. <i>Journal of Applied Physics</i> , 2007, 102, 023901.	2.5	16
107	Exchange bias in bulk Mn rich Ni-Mn-Sn Heusler alloys. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	149
108	Magnetocaloric properties of Fe and Ge doped Ni ₂ Mn _{1-x} Cu _x Ga. <i>Journal of Applied Physics</i> , 2007, 101, 09C515.	2.5	11

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109	Exchange bias behavior in Ni-Mn-Sb Heusler alloys. <i>Applied Physics Letters</i> , 2007, 91, 072510.	3.3	231
110	Inverse magnetocaloric effect in ferromagnetic Ni ₅₀ Mn _{37+x} Sb _{13-x} Heusler alloys. <i>Journal of Applied Physics</i> , 2007, 101, 053919.	2.5	175
111	Large magnetic entropy change in Ni ₅₀ Mn _{50-x} In _x Heusler alloys. <i>Applied Physics Letters</i> , 2007, 90, 262504.	3.3	203
112	Magnetocaloric properties of Ni ₂ Mn _{1-x} Cu _x Ga. <i>Applied Physics Letters</i> , 2006, 88, 192511.	3.3	230
113	Intermartensitic transformations in Ni ₂ Mn _{1-x} Co _x Ga Heusler alloys. <i>Journal of Applied Physics</i> , 2006, 99, 08M705.	2.5	9
114	The structural and magnetic properties of Ni ₂ Mn _{1-x} M _x Ga (M=Co, Cu). <i>Journal of Applied Physics</i> , 2005, 97, 10M304.	2.5	73
115	Properties of thin film europium oxide by x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2004, 95, 6571-6573.	2.5	12
116	Magnetic and structural phase transitions in Heusler type alloys Ni ₂ MnGa _{1-x} In _x . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 5259-5266.	1.8	61
117	Potential phase control of chromium oxide thin films prepared by laser-initiated organometallic chemical vapor deposition. <i>Applied Physics Letters</i> , 2001, 78, 521-523.	3.3	29
118	The polarization of Sb overlayers on NiMnSb(100). <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 273, 245-251.	2.1	12
119	Origin of the magnetic moments in La _{0.65} Pb _{0.35} MnO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2000, 87, 5606-5608.	2.5	3
120	Is Magnetic Circular Dichroism Surface Sensitive in the Manganese Perovskites?. <i>Materials Research Society Symposia Proceedings</i> , 1999, 602, 301.	0.1	2