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Large magnetic-field-induced strains in Ni₂MnGa single crystals

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#	Paper	IF	Citations
2280	Premartensitic Transition Driven by Magnetoelastic Interaction in bcc Ferromagnetic Ni ₂ MnGa. 1997 , 79, 3926-3929		180
2279	Optical and magnetic materials. 1997 , 2, 260-275		
2278	Magnetically controlled shape memory effect in Ni ₂ MnGa intermetallics. 1997 , 36, 1133-1138		215
2277	Magnetostriction of martensite. 1998 , 77, 1273-1299		572
2276	The Force of a Magnetic/Electric Field on a Twinning Dislocation. 1998 , 208, R1-R2		29
2275	Phase diagrams in the Ni ₂ MnGa system under compression. <i>Intermetallics</i> , 1998 , 6, 29-34	3.5	56
2274	Model for strain and magnetization in magnetic shape-memory alloys. <i>Journal of Applied Physics</i> , 1998 , 83, 3263-3270	2.5	593
2273	Magnetoelastic behavior of the Heusler Ni ₂ MnGa alloy. <i>Journal of Applied Physics</i> , 1998 , 83, 7300-7302	2.5	15
2272	A phenomenological model of ferromagnetic martensite. 1998 , 10, 4587-4596		64
2271	Induction mapping of magnetostrictive materials. <i>Journal of Applied Physics</i> , 1998 , 83, 6837-6839	2.5	7
2270	Field-induced strain under load in Ni ₂ MnGa magnetic shape memory materials. <i>Journal of Applied Physics</i> , 1998 , 83, 7297-7299	2.5	87
2269	Field-Induced Strain Under Load in Ni-Mn-Ga Magnetic Shape Memory Materials.		
2268	Structural properties of magnetic Heusler alloys. 1999 , 11, 2017-2026		203
2267	Giant magnetoelastic response in MnAs. <i>Journal of Applied Physics</i> , 1999 , 85, 7833-7837	2.5	56
2266	Giant magnetic-field-induced strains in Heusler alloy NiMnGa with modified composition. <i>Applied Physics Letters</i> , 1999 , 75, 2990-2992	3.4	159
2265	Premartensitic and martensitic phase transitions in ferromagnetic Ni ₂ MnGa. <i>Physical Review B</i> , 1999 , 60, 7085-7090	3.3	93
2264	Low-field magnetostriction in an annealed Co ₃₀ % Fe alloy. <i>Applied Physics Letters</i> , 1999 , 74, 2047-2049	3.4	5

2263	New directions in martensite theory. 1999 , 273-275, 11-20		29
2262	Transformation and ageing behaviour of melt-spun NiMnGa shape memory alloys. 1999 , 273-275, 315-319		51
2261	Premartensitic phase transformation in the Ni ₂ MnGa shape memory alloy. 1999 , 273-275, 329-332		6
2260	Magnetic and structural phase transitions in the shape-memory ferromagnetic alloys Ni _{2+x} Mn _{1-x} Ga. 1999 , 88, 954-962		26
2259	Magnetic transformation of Ni ₂ AlMn heusler-type shape memory alloys. 1999 , 30, 2721-2723		71
2258	Magnetoelasticity in the Heusler Ni ₂ MnGa alloy. 1999 , 196-197, 637-638		11
2257	Martensitic transformation in ferromagnets: experiment and theory. 1999 , 196-197, 859-860		31
2256	Magnetic and magnetomechanical properties of Ni ₂ MnGa. 1999 , 195, 627-638		420
2255	Compositional instability of β phase in Ni-Mn-Ga alloys. 1999 , 40, 523-527		369
2254	Phase transitions in intermetallic compounds Ni-Mn-Ga with shape memory effect. 1999 , 35, 3811-3813		30
2253	Spin-glass transition in Cu-Al-Mn shape-memory alloys. <i>Physical Review B</i> , 1999 , 59, 11450-11457	3-3	12
2252	Ferromagnetic shape memory in the NiMnGa system. 1999 , 35, 4301-4310		158
2251	Structural and magnetic phase transitions in shape-memory alloys Ni _{2+x} Mn _{1-x} Ga. <i>Physical Review B</i> , 1999 , 59, 1113-1120	3-3	377
2250	Modeling and Experiments for Deformation Under Load in Ni-Mn-Ga Ferromagnetic Shape Memory Alloy. 1999 , 604, 279		1
2249	Compressive Properties of Ni ₂ MnGa Produced by Spark Plasma Sintering. 1999 , 40, 863-866		6
2248	Effect of Magnetic Field on Phase Transformations in MnAs and Ni ₂ MnGa Compounds. 2000 , 41, 928-932		20
2247	Phase Transformations in Ferromagnetic NiMnGa Shape Memory Films. 2000 , 41, 933-937		60
2246	Magnetic Field-Induced Martensitic Transformation and Giant Magnetostriction in Fe-Ni-Co-Ti and Ordered Fe ₃ Pt Shape Memory Alloys. 2000 , 41, 882-887		98

2245	Phase Transformations and Magnetostriction in Ni‐Mn‐Ga Ferromagnetic Shape Memory Alloys. 2000 , 41, 938-942		44
2244	Preparation of Sputter-deposited Fe‐Pd Thin Films. 2000 , 41, 1139-1141		12
2243	Structural and magnetic phase transitions in NiMnGa shape-memory alloys. 2000 , 361-374		9
2242	New materials from theory: trends in the development of active materials. 2000 , 37, 239-250		15
2241	X-ray diffraction study of the structural phase transition of Ni ₂ MnGa alloys in high magnetic fields. 2000 , 113, 671-676		54
2240	Crystal structure of martensitic phases in NiMnGa shape memory alloys. 2000 , 48, 3027-3038		543
2239	Martensitic transformations and shape-memory materials. 2000 , 48, 197-222		267
2238	Magnetic and mechanical properties of FeNiCoTi magnetic shape memory alloy. 2000 , 81, 219-223		21
2237	Magnetic-field-controlled twin boundaries motion and giant magneto-mechanical effects in NiMnGa shape memory alloy. 2000 , 275, 142-151		252
2236	Reversible structural phase transition in Ni-Mn-Ga alloys in a magnetic field. 2000 , 72, 373-376		33
2235	Isomagnetic martensitic transformation in Ni ₂ MnGa alloys. 2000 , 218, 256-260		18
2234	Phase Transformations in Rapidly Quenched NiMnGa Alloys. 2000 , 15, 1496-1504		74
2233	Preparation and Properties of the Ni ₂ MnGa Magnetic Shape Memory Alloy. 2000 , 17, 296-297		2
2232	Effect of internal stress and bias field on the transformation strain of the Heusler alloy Ni ₅₂ Mn _{24.4} Ga _{23.6} . 2000 , 12, 6287-6293		16
2231	The effect of field cooling and field orientation on the martensitic phase transformation in a Ni ₂ MnGa single crystal. <i>Journal of Applied Physics</i> , 2000 , 87, 5777-5779	2.5	28
2230	Micromagnetic study of Ni ₂ MnGa under applied field (invited). <i>Journal of Applied Physics</i> , 2000 , 87, 4702-4706	2.5	88
2229	Stress-free two-way thermoelastic shape memory and field-enhanced strain in Ni ₅₂ Mn ₂₄ Ga ₂₄ single crystals. <i>Applied Physics Letters</i> , 2000 , 77, 3245-3247	3-4	67
2228	Large field induced strain in single crystalline NiMnGa ferromagnetic shape memory alloy. <i>Journal of Applied Physics</i> , 2000 , 87, 5774-5776	2.5	143

2227	Magnetic-field-induced twin boundary motion in magnetic shape-memory alloys. <i>Physical Review B</i> , 2000 , 61, R14913-R14915	3-3	110
2226	Effect of high magnetic field on the two-step martensitic-phase transition in Ni ₂ MnGa. <i>Applied Physics Letters</i> , 2000 , 76, 37-39	3-4	34
2225	Giant field-induced reversible linear strain in magnetic shape memory NiMnGa at room temperature.		
2224	Magnetic-field-induced strains and magnetic properties of Heusler alloy Ni ₅₂ Mn ₂₃ Ga ₂₅ . <i>Journal of Applied Physics</i> , 2000 , 87, 6292-6294	2-5	21
2223	Chemical segregation during bulk single crystal preparation of NiMnGa ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2000 , 312, 77-85	5-7	119
2222	Magnetic properties and large magnetic-field-induced strains in off-stoichiometric NiMnAl Heusler alloys. <i>Applied Physics Letters</i> , 2000 , 77, 3054-3056	3-4	205
2221	Phenomenology of giant magnetic-field-induced strain in ferromagnetic shape-memory materials (invited). <i>Journal of Applied Physics</i> , 2000 , 87, 4712-4717	2-5	283
2220	Giant field-induced reversible strain in magnetic shape memory NiMnGa alloy. 2000 , 36, 3266-3268		283
2219	Giant magnetostriction in an ordered Fe ₃ Pt single crystal exhibiting a martensitic transformation. <i>Applied Physics Letters</i> , 2000 , 77, 1502-1504	3-4	198
2218	Magnetic entropy change in Ni _{51.5} Mn _{22.7} Ga _{25.8} alloy. <i>Applied Physics Letters</i> , 2000 , 76, 3460-3462	3-4	366
2217	6% magnetic-field-induced strain by twin-boundary motion in ferromagnetic NiMnGa. <i>Applied Physics Letters</i> , 2000 , 77, 886-888	3-4	953
2216	Model for discontinuous actuation of ferromagnetic shape memory alloy under stress. <i>Journal of Applied Physics</i> , 2001 , 89, 1295-1301	2-5	71
2215	Thermal hysteresis and friction of phase boundary motion in ferromagnetic Ni ₅₂ Mn ₂₃ Ga ₂₅ single crystals. <i>Physical Review B</i> , 2001 , 65,	3-3	57
2214	Magnetic properties and structural phase transformations of NiMnGa alloys. 2001 , 37, 2715-2717		26
2213	Magnetic phase separation in ordered alloys. <i>Physical Review B</i> , 2001 , 63,	3-3	8
2212	Large magnetic entropy change in a Heusler alloy Ni _{52.6} Mn _{23.1} Ga _{24.3} single crystal. <i>Physical Review B</i> , 2001 , 64,	3-3	230
2211	Characterization of phase transformations, long range order and thermal properties of Ni ₂ MnGa alloys. 2001 , 12, 9-17		13
2210	Structural characteristics and magnetic properties of Fe-Pd thin films. 2001 , 12, 61-66		4

2209	Magnetoelastic behavior of Ni-Mn-Ga martensitic alloys. 2001 , 12, 3-8	23
2208	A Synchrotron X-Ray Study of Texture Induced by Application of Magnetic Fields During Phase-Transformations in Shape-Memory Ni-Mn-Ga. 2001 , 678, 271	
2207	Phase Equilibria and Phase Transformations in New B2-type Ferromagnetic Shape Memory Alloys of Co-Ni-Ga and Co-Ni-Al Systems. 2001 , 42, 2472-2475	237
2206	?????????????????????. 2001 , 40, 544-547	5
2205	References. 2001 , 36, 271-285	
2204	Shape memory effect due to magnetic field-induced thermoelastic martensitic transformation in polycrystalline NiMnGa alloy. 2001 , 291, 175-183	114
2203	Spin correlations in Ni-Mn-Ga. 2001 , 74, 590-595	5
2202	Magnetic-field-induced strains in polycrystalline Ni-Mn-Ga at room temperature. 2001 , 44, 475-480	81
2201	A new ferromagnetic shape memory alloy system. 2001 , 44, 2393-2397	277
2200	Giant magnetic-field-induced strain in NiMnGa crystals: experimental results and modeling. 2001 , 226-230, 945-947	82
2199	The model development and experimental investigation of giant magneto-mechanical effects in NiMnGa. 2001 , 226-230, 1541-1543	14
2198	Magnetic properties and domain structure of magnetic shape memory NiMnGa alloy. 2001 , 226-230, 996-998	74
2197	Magnetostriction in ferromagnetic shape memory alloys. 2001 , 234, 25-30	33
2196	Ferromagnetic resonance in non-stoichiometric Ni _{1-x} Mn _x Gay. 2001 , 237, 309-326	24
2195	Magnetic Shape Memory materials-new possibilities to create force and movement by magnetic fields.	9
2194	Magnetization and magnetocaloric effect in magnetic shape memory alloys Ni-Mn-Ga. 2001 , 37, 2718-2720	27
2193	Influence of external stress on the reversibility of magnetic-field-controlled shape memory effect in Ni-Mn-Ga. 2001 , 4333, 197	27
2192	Magnetic and magnetomechanical properties of Ni-Mn-Ga alloys with easy axis and easy plane of magnetization. 2001 , 4333, 189	44

2191	MARTENSITIC STRUCTURES IN Ni-Mn-Ga. 2001 ,		1
2190	Promising ferromagnetic NiCoAl shape memory alloy system. <i>Applied Physics Letters</i> , 2001 , 79, 3290-3293	3.4	304
2189	Intermartensitic transformation and magnetic-field-induced strain in Ni ₅₂ Mn _{24.5} Ga _{23.5} single crystals. <i>Applied Physics Letters</i> , 2001 , 79, 1148-1150	3.4	56
2188	Phonon softening in NiMnGa alloys. <i>Physical Review B</i> , 2001 , 64,	3.3	85
2187	Vibrational properties of shape-memory alloys. 2001 , 159-267		117
2186	Magnetoelastic effects and magnetic anisotropy in Ni ₂ MnGa polycrystals. <i>Journal of Applied Physics</i> , 2001 , 89, 5614-5617	2.5	75
2185	Structural and magnetic phase transitions in Ni-Mn-Ga ferromagnetic shape-memory crystals. 2001 , 37, 2666-2668		15
2184	Soft tetragonal distortions in ferromagnetic Ni ₂ MnGa and related materials from first principles. <i>Physical Review B</i> , 2001 , 63,	3.3	117
2183	Effect of temperature on magnetic properties of Ni-Mn-Ga magnetic shape memory (MSM) alloys. 2001 , 37, 2672-2674		46
2182	Magnetic entropy change in Ni _{50.1} Mn _{20.7} Ga _{29.6} single crystal. <i>Journal of Applied Physics</i> , 2001 , 90, 5216-5219	3.1	31
2181	Magneto-shape-memory effect in CoNi single crystals. <i>Applied Physics Letters</i> , 2001 , 78, 3660-3662	3.4	20
2180	Temperature dependence of magnetic anisotropy in NiMnGa alloys exhibiting giant field-induced strain. <i>Journal of Applied Physics</i> , 2002 , 91, 8228	2.5	76
2179	Magnetocrystalline anisotropy in single-crystal CoNiAl ferromagnetic shape-memory alloy. <i>Applied Physics Letters</i> , 2002 , 81, 1657-1659	3.4	84
2178	Structural and temperature dependence of the optical and magneto-optical properties of the Heusler Ni ₂ MnGa alloy. <i>Physical Review B</i> , 2002 , 66,	3.3	36
2177	Multistep magnetic switching in single-crystal (001)Co ₂ MnGe films. <i>Physical Review B</i> , 2002 , 65,	3.3	54
2176	Composition and temperature dependence of the magnetocrystalline anisotropy in Ni _{2+x} Mn _{1+y} Ga _{1+z} (x+y+z=0) Heusler alloys. <i>Applied Physics Letters</i> , 2002 , 81, 4032-4034	3.4	87
2175	Co-occurrence of magnetic and structural transitions in the Heusler alloy Ni ₅₃ Mn ₂₅ Ga ₂₂ . <i>Applied Physics Letters</i> , 2002 , 80, 1619-1621	3.4	53
2174	Magnetic properties and martensitic transformation in quaternary Heusler alloy of NiMnFeGa. <i>Journal of Applied Physics</i> , 2002 , 92, 5006-5010	2.5	125

2173	Magnetic properties and shape memory of Fe-doped Ni ₅₂ Mn ₂₄ Ga ₂₄ single crystals. <i>Applied Physics Letters</i> , 2002 , 80, 634-636	3-4	56
2172	Dilatometer for measurements of linear dimension variations under the effects of temperature, magnetic field and mechanical stress. 2002 , 13, 174-178		8
2171	Effect of post-growth annealing and magnetic field on the two-way shape memory effect of Ni ₅₂ Mn ₂₄ Ga ₂₄ single crystals. 2002 , 35, 492-496		5
2170	Mechanical and Magnetostrictive Properties of Fe-Doped Ni ₅₂ Mn ₂₄ Ga ₂₄ Single Crystals. 2002 , 19, 1547-1549		9
2169	Magnetocrystalline Anisotropy and Magnetoelasticity of Preferentially Oriented Martensitic Variants in Ni ₅₂ Mn ₂₄ Ga ₂₄ Single Crystals. 2002 , 19, 591-594		1
2168	Magnetic properties of various martensitic phases in Ni-Mn-Ga alloy. 2002 , 38, 2835-2837		40
2167	Giant Magnetostriction in Ferromagnetic Shape-Memory Alloys. 2002 , 27, 105-109		84
2166	Optimizing work output in Ni-Mn-Ga and other ferromagnetic shape memory alloys. 2002 ,		7
2165	Model calculation of the stress-strain relationship of polycrystalline Fe-Pd and 3D phase transformation diagram of ferromagnetic shape memory alloys. 2002 , 4699, 206		1
2164	Magnetic and Martensitic Phase Transformations in a Ni ₅₄ Ga ₂₇ Fe ₁₉ Alloy. 2002 , 43, 2360-2362		115
2163	Composition Control of R.F.-Sputtered Ni ₂ MnGa Thin Films Using Optical Emission Spectroscopy. 2002 , 43, 871-875		8
2162	Magnetic-Field-Induced Stresses and Magnetostrain Effect in Martensite. 2002 , 43, 876-880		10
2161	Martensitic Transformation in Shape Memory Alloys under Magnetic Field and Hydrostatic Pressure. 2002 , 43, 887-892		12
2160	New Aspects of Structural and Magnetic Behaviour of Martensites in Ni-Mn-Ga Alloys. 2002 , 43, 856-860		40
2159	Thermoelastic intermartensitic transformation and its internal stress dependency in Ni ₅₂ Mn ₂₄ Ga ₂₄ single crystals. <i>Physical Review B</i> , 2002 , 66,	3-3	57
2158	Martensitic transition and magnetoresistance in a Cu-Al-Mn shape-memory alloy: Influence of ageing. <i>Physical Review B</i> , 2002 , 66,	3-3	24
2157	Structural, thermal, and magnetic properties of Ni ₂ MnGa. <i>Journal of Applied Physics</i> , 2002 , 91, 7798	2-5	43
2156	Magnetic properties of Ni _{2.18} Mn _{0.82} Ga Heusler alloys with a coupled magnetostructural transition. <i>Physical Review B</i> , 2002 , 65,	3-3	65

2155	Superhigh strains by variant reorientation in the nonmodulated ferromagnetic NiMnGa alloys. <i>Applied Physics Letters</i> , 2002 , 81, 2818-2820	3.4	71
2154	Magnetic anisotropy in Ni ₂ MnGa. <i>Physical Review B</i> , 2002 , 65,	3.3	77
2153	Analytical model for field-induced strain in ferromagnetic shape-memory alloy polycrystals. <i>Journal of Applied Physics</i> , 2002 , 91, 7807	2.5	19
2152	Magnetic field induced entropy change and magnetoelasticity in Ni-Mn-Ga alloys. <i>Physical Review B</i> , 2002 , 66,	3.3	116
2151	Magnetic and martensitic phase transitions in ferromagnetic Ni ₅₀ Ga ₅₀ shape memory alloys. <i>Applied Physics Letters</i> , 2002 , 81, 5201-5203	3.4	290
2150	Magnetic properties of Ni-Mn-Ga ribbon prepared by rapid solidification. 2002 , 38, 2841-2843		34
2149	Crystal structures and magnetic anisotropy properties of Ni-Mn-Ga martensitic phases with giant magnetic-field-induced strain. 2002 , 38, 2814-2816		168
2148	Influence of structural transition on transport and optical properties of Ni ₂ MnGa alloy. <i>Journal of Applied Physics</i> , 2002 , 91, 9894	2.5	23
2147	NiMnGa thin films produced by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2002 , 91, 8234	2.5	42
2146	Large cyclic deformation of a Ni-Mn-Ga shape memory alloy induced by magnetic fields. <i>Journal of Applied Physics</i> , 2002 , 92, 6708-6713	2.5	114
2145	Two-way shape memory effect and mechanical properties of pulse discharge sintered Ni _{2.18} Mn _{0.82} Ga. 2002 , 16, 173-179		7
2144	Temperature variation of structure and magnetic properties of NiMnGa magnetic shape memory alloys. 2002 , 242-245, 1446-1449		52
2143	Time-dependent magnetostrain effect and stress relaxation in the martensitic phase of NiMnGa. 2002 , 241, 287-291		18
2142	Stress-induced FCC/FCT phase transformation in FePd alloy. 2002 , 46, 471-475		58
2141	Configurational forces in magnetism with application to the dynamics of a small-scale ferromagnetic shape memory cantilever. 2002 , 14, 55-86		43
2140	Magnetic-phase transitions and magnetocaloric effects. <i>Physica B: Condensed Matter</i> , 2002 , 319, 174-192.8		288
2139	Magnetic and structural transition of Ni _{50+x} Mn _{25-x/2} Ga _{25-x/2} (x=25) alloys. 2002 , 248, 312-317		13
2138	Crystallization behavior of r.f.-sputtered near stoichiometric Ni ₂ MnGa thin films. 2002 , 408, 316-320		34

2137	Magnetic domain structures in CoNiAl shape memory alloys studied by Lorentz microscopy and electron holography. 2002 , 50, 2173-2184		89
2136	A constrained theory of magnetoelasticity. 2002 , 50, 283-320		159
2135	Crystal structure, magnetic anisotropy, and mechanical properties of seven-layered martensite in Ni-Mn-Ga. 2002 ,		12
2134	Giant magnetic-field-induced strain in NiMnGa seven-layered martensitic phase. <i>Applied Physics Letters</i> , 2002 , 80, 1746-1748	3-4	1379
2133	Empirical mapping of NiMnGa properties with composition and valence electron concentration. <i>Journal of Applied Physics</i> , 2002 , 91, 8222	2-5	192
2132	The use of phase diagrams and thermodynamic databases for electronic materials. 2003 , 55, 53-59		20
2131	Straining of magnetic shape memory martensite by uniform magnetic field. 2003 , 48, 31-35		7
2130	Martensitic transformation and magnetization of NiBeGa ferromagnetic shape memory alloys. 2003 , 48, 1255-1258		65
2129	Recoverable stress-induced martensitic transformation in a ferromagnetic CoNiAl alloy. 2003 , 49, 831-836		82
2128	Training of the NiMnBeGa ferromagnetic shape-memory alloys due cycling in high magnetic field. 2003 , 258-259, 523-525		33
2127	Phenomenological theory of magnetic-field-induced strains in ferromagnetic shape-memory materials. 2003 , 261, 204-209		13
2126	Statistical model of magnetostrain effect in martensite. 2003 , 265, 142-151		43
2125	HREM study of different martensitic phases in NiMnGa alloys. 2003 , 81, 457-459		31
2124	Recent advances and future directions in magnetic materials. 2003 , 51, 5907-5939		343
2123	Effect of magnetic field on martensite transformation in a polycrystalline Ni ₂ MnGa. 2003 , 359, 253-260		57
2122	The role of new materials in the development of magnetic sensors and actuators. 2003 , 106, 3-7		83
2121	Magnetic domain structure in Ni _{53.6} Mn _{23.4} Ga _{23.0} shape memory alloy films studied by electron holography and Lorentz microscopy. 2003 , 51, 485-494		16
2120	Ferromagnetism of thermoelastic martensites: Theory and experiment. <i>Physical Review B</i> , 2003 , 67,	3-3	88

2119	Theory of magnetization: Twin boundary interaction in ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2003 , 93, 4561-4565	2.5	26
2118	First-principles investigations of homogeneous lattice-distortive strain and shuffles in Ni ₂ MnGa. 2003 , 15, 159-164		70
2117	The influence of atomic order on the magnetic and structural properties of the ferromagnetic shape memory compound Ni ₂ MnGa. 2003 , 15, 3831-3839		65
2116	Martensitic transformation and shape memory effect in ferromagnetic Heusler alloy Ni ₂ FeGa. <i>Applied Physics Letters</i> , 2003 , 82, 424-426	3.4	208
2115	Martensitic transformation behavior under magnetic field in Co-Ni-Al ferromagnetic shape memory alloys. 2003 ,		5
2114	Magnetization Process Associated with Rearrangement of Martensite Variants in Iron-Based Ferromagnetic Shape Memory Alloys. 2003 , 785, 1231		2
2113	Ni volume diffusion in Ni ₂ MnGa. <i>Intermetallics</i> , 2003 , 11, 1075-1077	3.5	6
2112	A novel actuation mechanism based on ferromagnetic SMA thin films.		
2111	Latching valve control using ferromagnetic shape memory alloy actuators. 2003 ,		4
2110	Fundamental Investigation of Ferromagnetic Shape Memory Alloys: A New Perspective. 2003 , 785, 1321		2
2109	Elasticity Study in Ferromagnetic Shape Memory Alloys. 2003 , 785, 221		7
2108	Temperature dependence of mechanical and magnetic curves in Ni ₂ /MnGa single crystals. 2003 , 39, 3399-3401		4
2107	Temperature dependence and temperature limits of magnetic shape memory effect. <i>Journal of Applied Physics</i> , 2003 , 94, 7139-7143	2.5	125
2106	First-principles investigation of phonon softenings and lattice instabilities in the shape-memory system Ni ₂ MnGa. <i>Physical Review B</i> , 2003 , 68,	3.3	103
2105	Magnetic domain structure in a ferromagnetic shape memory alloy Ni ₅₁ Fe ₂₂ Ga ₂₇ studied by electron holography and Lorentz microscopy. <i>Applied Physics Letters</i> , 2003 , 82, 3695-3697	3.4	54
2104	Superelasticity in high-temperature Ni ₂ MnGa alloys. <i>Journal of Applied Physics</i> , 2003 , 93, 2394-2399	2.5	122
2103	A high-temperature shape-memory alloy Ni ₅₄ Mn ₂₅ Ga ₂₁ . <i>Applied Physics Letters</i> , 2003 , 82, 3206-3208	3.4	105
2102	Magnetic-field-induced strain of Fe ₂ NiGa in single-variant state. <i>Applied Physics Letters</i> , 2003 , 83, 4993-4995	3.4	60

2101	Superelastic response of Ni-Mn-Ga martensite in magnetic field and simple model. 2003 ,		1
2100	Magnetic, magneto-optical, and transport properties of ferromagnetic shape-memory Ni ₂ MnGa alloy. <i>Journal of Applied Physics</i> , 2003 , 93, 6975-6977	2.5	14
2099	Magnetic field-induced strain in iron-based ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2003 , 93, 8647-8649	2.5	90
2098	Effect of annealing and thermal cycling on phase transformation behaviour of NiMnGa alloy. 2003 , 19, 691-694		4
2097	Magnetic and transport properties of (□□) Ni ₃₅ Co ₃₅ Al ₃₀ ferromagnetic shape memory alloy across the martensitic transition. 2003 , 36, 1366-1370		16
2096	Effects of growth rate and composition on the microstructure of directionally solidified NiMnGa alloys. 2003 , 5053, 181		4
2095	Magnetic properties and martensitic transition in annealed Ni ₅₀ Mn ₃₀ Al ₂₀ . <i>Journal of Applied Physics</i> , 2003 , 93, 8498-8500	2.5	51
2094	Structure and thermomagnetic properties of polycrystalline NiMnGa thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 8492-8494	2.5	31
2093	Influence of Magnetic Field Direction on Rearrangement of Martensite Variants in an Fe-Pd Alloy. 2003 , 44, 2495-2498		10
2092	Magnetocrystalline Anisotropy in a Single Crystal Fe-Ni-Ga Ferromagnetic Shape Memory Alloy. 2003 , 44, 661-664		31
2091	Effect of Co and Ni on Martensitic Transformation and Magnetic Properties in Fe-Pd Ferromagnetic Shape Memory Alloys. 2003 , 44, 2499-2502		21
2090	Magnetocrystalline Anisotropy in a Single-Variant Co-Ni-Al Ferromagnetic Shape Memory Alloy. 2003 , 44, 2180-2183		15
2089	Magnetic and structural properties of nonstoichiometric Ni ₂ MnGa alloys with Ni and Ga excess. <i>Journal of Applied Physics</i> , 2003 , 93, 8504-8506	2.5	9
2088	Analysis of mechanical and magnetic instabilities in Ni-Mn-Ga single crystals. <i>Journal of Applied Physics</i> , 2003 , 93, 8641-8643	2.5	17
2087	Magnetic shape memory □Mechanism, modeling principles and their application to Ni-Mn-Ga. 2003 , 112, 981-984		7
2086	Optical scanner based on a NiMnGa thin film microactuator. 2003 , 112, 1185-1188		15
2085	Energetics of magnetoelastic domains in ferromagnetic shape memory alloys. 2003 , 112, 969-972		4
2084	10% magnetic-field-induced strain in Ni-Mn-Ga seven-layered martensite. 2003 , 112, 955-958		24

2083	Magnetic field induced reversible strain in Co-Ni single crystal. 2003 , 112, 1013-1016		5
2082	Stress-induced variant rearrangement in Ni-Mn-Ga single crystals with nonlayered tetragonal martensitic structure. 2004 , 115, 121-128		12
2081	Magneto-mechanical cycling and modeling the external stress effect on the magnetic-field-controlled strain response in Ni-Mn-Ga. 2004 , 115, 95-103		2
2080	Interdependence between the magnetic properties and lattice parameters of NiMnGa martensite. 2004 , 16, 8345-8352		14
2079	Martensitic transformation and magnetic properties of CoNiAl shape memory alloy ribbons. 2004 , 37, 2643-2647		16
2078	Resistivity and thermopower of Ni _{2.19} Mn _{0.81} Ga. <i>Physical Review B</i> , 2004 , 70,	3-3	13
2077	Reduction in required magnetic field to induce twin-boundary motion in ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2004 , 95, 6965-6967	2-5	15
2076	Magnetostriction of stress-induced martensite. <i>Applied Physics Letters</i> , 2004 , 85, 1642-1644	3-4	5
2075	Various magnetic domain structures in a NiMnGa martensite exhibiting magnetic shape memory effect. <i>Journal of Applied Physics</i> , 2004 , 96, 2159-2163	2-5	71
2074	Shape memory and ferromagnetic shape memory effects in single-crystal Ni ₂ MnGa thin films. <i>Journal of Applied Physics</i> , 2004 , 95, 2593-2600	2-5	92
2073	Pathways of structural and magnetic transition in ferromagnetic shape-memory alloys. <i>Physical Review B</i> , 2004 , 70,	3-3	21
2072	Temperature- and field-dependent evolution of micromagnetic structure in ferromagnetic shape-memory alloys. <i>Physical Review B</i> , 2004 , 70,	3-3	37
2071	Microstructural change near the martensitic transformation in a ferromagnetic shape memory alloy Ni ₅₁ Fe ₂₂ Ga ₂₇ studied by electron holography. <i>Applied Physics Letters</i> , 2004 , 85, 6170-6172	3-4	25
2070	Voltage generation induced by mechanical straining in magnetic shape memory materials. <i>Journal of Applied Physics</i> , 2004 , 95, 8054-8058	2-5	64
2069	Magnetic field-induced stress in the NiMnGa magnetic shape memory alloy. <i>Journal of Applied Physics</i> , 2004 , 95, 4958-4961	2-5	23
2068	In situ study of temperature dependent magnetothermoelastic correlated behavior in ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2004 , 95, 6951-6953	2-5	18
2067	Magnetic-field-induced superelasticity of ferromagnetic thermoelastic martensites: Experiment and modeling. <i>Physical Review B</i> , 2004 , 69,	3-3	84
2066	Large cyclic magnetic-field-induced deformation in orthorhombic (14M) NiMnGa martensite. <i>Journal of Applied Physics</i> , 2004 , 95, 1531-1536	2-5	154

2065	Stress-strain characteristics in Ni ₅₀ Co ₂₀ Be ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2004 , 84, 1275-1277	3-4	122
2064	Magnetization dependence on strain in the Ni ₅₀ Mn ₂₀ Co ₃₀ Ga magnetic shape memory material. <i>Applied Physics Letters</i> , 2004 , 84, 4658-4660	3-4	32
2063	Temperature Dependence of Magneto-Mechanical Response in Ni-Mn-Ga Magnetic Shape Memory Alloys. 2004 , 855, 31		
2062	Development of Magnetostrictive Fe-Ga and Fe-Pd Thin Films. 2004 , 855, 66		1
2061	Phenomenological modeling of ferromagnetic shape memory alloys. 2004 ,		16
2060	Shape Memory Microactuators. 2004 ,		96
2059	Microstructure and solidification behavior of Ni-Mn-Ga magnetic shape memory alloys. 2004 , 5387, 549		4
2058	MAGNETOELASTIC NANOCRYSTALLINE Co ₅₀ Ni ₅₀ ALLOYS. 2004 , 03, 615-623		2
2057	Magnetic Properties of Dislocations. 2004 , 1-14		
2056	Phenomenological model of variant change during magnetization of martensite. 2004 , 84, 283-291		1
2055	Transformation behaviour and martensite stabilization in the ferromagnetic Co ₅₀ Ni ₅₀ Ga Heusler alloy. 2004 , 50, 225-229		84
2054	Shape memory effect of grain refined Ni ₅₄ Mn ₂₅ Ga ₂₁ alloy with high transformation temperature. 2004 , 51, 849-852		72
2053	Influence of stresses on martensitic transformation in ferromagnetic shape memory Ni ₅₀ Mn ₁₉ Fe ₆ Ga ₂₅ ribbons. 2004 , 47, 710		
2052	Artificial muscle technology: physical principles and naval prospects. 2004 , 29, 706-728		694
2051	Characterization of preferential orientation of martensitic variants in a single crystal of NiMnGa. 2004 , 130, 687-690		16
2050	Magnetic shape memory actuator performance. 2004 , 272-276, 2029-2030		40
2049	Magnetic shape memory in Ni ₅₀ Mn ₂₀ Co ₃₀ Ga and Ni ₅₀ Mn ₂₀ Al. 2004 , 272-276, 2090-2092		17
2048	Effect of the chemical composition to martensitic transformation in Ni ₅₀ Mn ₂₀ Co ₃₀ Be alloys. 2004 , 378, 384-388		56

2047	Stress- and magnetic-field-induced variant rearrangement in NiMnGa single crystals with seven-layered martensitic structure. 2004 , 378, 399-402	58
2046	In situ transmission electron microscopy studies of directionally solidified NiMnGa ferromagnetic shape memory alloys. 2004 , 378, 409-414	14
2045	Orientational dependence of shape memory effects and superelasticity in CoNiGa, NiMnGa, CoNiAl, FeNiCoTi, and TiNi single crystals. 2004 , 47, 893-911	21
2044	Pulsed laser deposition of NiMnGa thin films on silicon. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1505-1508	2.6 34
2043	Temperature dependence of magnetic properties in Ni-Mn-Ga shape memory alloys. 2004 , 1, 3579-3582	1
2042	Acoustic emission of NiMnGa magnetic shape memory alloy in different straining modes. 2004 , 374, 263-269	38
2041	Giant magnetic field-induced strain due to rearrangement of variants in an ordered Fe3Pt. 2004 , 5, 35-40	23
2040	Rearrangement of variants in Ni2MnGa under magnetic field. 2004 , 5, 29-34	36
2039	Preparation and characterization of ferromagnetic shape memory alloys. 2004 , 153-154, 965-970	1
2038	Physical properties of the ordered and disordered Ni2MnGa Heusler alloy films. 2004 , 272-276, 1176-1177	6
2037	Magnetic field induced entropy change and magnetoelasticity in NiMnGa alloys. 2004 , 272-276, E1595-E1596	4
2036	Investigation of magnetic anisotropy of NiMnGa seven-layered orthorhombic martensite. 2004 , 272-276, 2049-2050	25
2035	Effects of annealing on martensitic and magnetic transitions of NiGaFe ferromagnetic shape memory alloys. 2004 , 272-276, 2043-2044	28
2034	Mechanical energy absorption in NiMnGa polymer composites. 2004 , 272-276, 2038-2039	25
2033	Characterization of NiMnGa magnetic shape memory alloys. 2004 , 155-156, 1266-1272	19
2032	A novel actuation mechanism on the basis of ferromagnetic SMA thin films. 2004 , 114, 445-450	101
2031	Magnetocaloric effect in Ni2+xMn1-xGa Heusler alloys. 2004 , 326, 146-151	63
2030	Martensitic transformation and magnetic properties of Heusler alloy NiBeGa ribbon. 2004 , 329, 214-220	53

2029	Micromagnetic modeling of magnetostrictive materials under intrinsic stress. 2004 , 36, 975-997	75
2028	Magnetically driven shape memory alloys. 2004 , 378, 52-60	82
2027	Different modeling concepts of magnetic shape memory and their comparison with some experimental results obtained in NiMnGa. 2004 , 378, 513-518	86
2026	Effect of the selected alloying on NiMnGa alloys. 2004 , 378, 389-393	22
2025	Phase transformations in NiGaFe ferromagnetic shape memory alloys. 2004 , 378, 403-408	73
2024	Role of shuffles and atomic disorder in NiMnGa. 2004 , 378, 419-423	40
2023	Modification of NiMnGa ferromagnetic shape memory alloy by addition of rare earth elements. 2004 , 378, 370-376	92
2022	Magnetic properties of stress-induced martensite and martensitic transformation in NiMnGa magnetic shape memory alloy. 2004 , 378, 394-398	23
2021	Coarse-grained models of materials with non-convex free-energy: two case studies. 2004 , 193, 5129-5141	11
2020	Phase transformation and magnetic anisotropy of an iron-palladium ferromagnetic shape-memory alloy. 2004 , 52, 35-47	163
2019	Magnetic field-induced reversible variant rearrangement in FePd single crystals. 2004 , 52, 5083-5091	58
2018	Detectability of stress-induced martensite phase in ferromagnetic shape memory alloy Fe _{0.2at.%} Pd by Barkhausen noise method. 2004 , 52, 5169-5175	9
2017	NiMnGa films on Si, GaAs and NiMnGa single crystals by pulsed laser deposition. 2004 , 238, 155-158	27
2016	Control of microstructure by a magnetic field in iron-based ferromagnetic shape memory alloys. 2004 , 16, S5615-S5622	1
2015	Dynamical properties of Ni ₂ MnGa determined from density functional calculations. 2004 , 77, 253-259	4
2014	A comparative study of Ni/sub 2/MnGa, Ni/sub 2/MnAl, and Ni/sub 2/MnIn Heusler alloy films. 2004 , 40, 2775-2777	8
2013	Large magnetostriction in Fe _{100-x} Al _x (15?x?30) melt-spun ribbons. <i>Applied Physics Letters</i> , 2004 , 85, 1751-1753	3-4 22
2012	Magnetic and structural phase transitions in Heusler type alloys Ni ₂ MnGa _{1-x} In _x . 2004 , 16, 5259-5266	59

2011	Magnetic field-controlled two-way shape memory in CoNiGa single crystals. <i>Applied Physics Letters</i> , 2004 , 84, 3594-3596	3.4	63
2010	Intermartensitic transformation in a NiMnGa alloy. <i>Journal of Applied Physics</i> , 2004 , 95, 6957-6959	2.5	62
2009	Microstructural characterization of Ni-Mn-Ga ferromagnetic shape memory alloy powders. <i>Journal of Applied Physics</i> , 2004 , 95, 6954-6956	2.5	20
2008	Phase equilibria and stability of Heusler-type aluminides in the NiAlNi ₂ AlTiNi ₂ AlY (Y: V, Cr or Mn) systems. <i>Journal of Alloys and Compounds</i> , 2004 , 367, 2-9	5.7	16
2007	Magnetic properties of ferromagnetic shape memory alloys Ni ₂ Mn _{1-x} Fe _x Ga. <i>Journal of Alloys and Compounds</i> , 2004 , 383, 184-188	5.7	60
2006	Magnetic and martensitic transformations of NiMnX(X=In,Sn,Sb) ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2004 , 85, 4358	3.4	894
2005	Composition and temperature dependence of the crystal structure of NiMnGa alloys. <i>Journal of Applied Physics</i> , 2004 , 95, 8074-8078	2.5	261
2004	Magnetic properties of single crystals of Ni-Mn-Ga magnetic shape memory alloys. 2004 ,		3
2003	Magnetic forces controlling magnetic shape memory in Ni-Mn-Ga and their practical measurement from the mechanical testing experiments in constant magnetic fields. 2004 ,		3
2002	The influence of composition and thermomechanical treatments on the magnetic shape memory effect of Ni-Mn-Ga single crystals. 2004 , 5387, 137		4
2001	Dynamic behavior and stiffness tuning in solenoid-based Ni-Mn-Ga transducers. 2004 , 5387, 519		1
2000	Rearrangement of Martensite Variants in Iron-Based Ferromagnetic Shape Memory Alloys under Magnetic Field. 2004 , 45, 188-192		49
1999	First Principle Calculations on Structures and Magnetic Properties in Non-Stoichiometric Ni-Mn-Ga Shape Memory Alloys. 2004 , 45, 2661-2664		3
1998	Ferromagnetic Co-Ni-Al Shape Memory Alloys with β + γ ; Two-Phase Structure. 2004 , 45, 427-430		46
1997	Martensitic Transformation and Magnetic Properties of Cu-Ga-Mn β ; Alloys. 2004 , 45, 2780-2784		24
1996	Combinatorial Investigation of Ferromagnetic Shape-Memory Alloys in the Ni-Mn-Al Ternary System Using a Composition Spread Technique. 2004 , 45, 173-177		26
1995	On the theory of the formation of equilibrium domain structure in antiferromagnets. 2004 , 30, 804-814		7
1994	Uniaxial Magnetocrystalline Anisotropy Constant and Twinning Stress of Fe-31.2 mol%Pd Ferromagnetic Shape Memory Alloy. 2005 , 69, 649-653		3

1975	Some aspects of strain-induced change of magnetization in a NiMnGa single crystal. 2005 , 53, 829-834	13
1974	Enhancement of magnetic-field-induced strain in NiFeGaCo Heusler alloy. 2005 , 53, 1237-1240	50
1973	. 2005 , 41, 1086-1088	9
1972	Physical properties of Ni/sub 2/MnGe alloy films with different degrees of atomic orders. 2005 , 41, 3443-3445	3
1971	Observation of magnetic intermartensitic phase transition in off-stoichiometric Ni-Mn-Ga single crystal. 2005 , 41, 3446-3447	1
1970	The metal flux: a preparative tool for the exploration of intermetallic compounds. 2005 , 44, 6996-7023	393
1969	Metallische Schmelzen (Reaktionsmedien zur Präparation intermetallischer Verbindungen). 2005 , 117, 7156-7184	51
1968	The ferromagnetic shape-memory effect in NiMnGa. 2005 , 290-291, 35-41	49
1967	Effect of hydrostatic pressure on magnetization of Ni _{2+x} Mn _{1-x} Ga alloys. 2005 , 290-291, 669-672	24
1966	Characterization of the martensitic transformation in melt-spun NiMnGa ribbons by magnetoinductive effect. 2005 , 290-291, 826-828	8
1965	Determination of ordinary magnetostriction in NiMnGa magnetic shape memory alloy. 2005 , 290-291, 846-849	34
1964	Effects of partial substitution of Co on magnetocrystalline anisotropy and magnetic-field-induced strain in NiFeGa alloys. 2005 , 290-291, 850-853	32
1963	Magnetic shape memory effect and magnetization reversal. 2005 , 290-291, 787-794	145
1962	Preface. 2005 , ix-x	
1961	Introduction. 2005 , 1-18	1
1960	Applications of electronic composites. 2005 , 19-68	1
1959	Foundations of modeling. 2005 , 69-125	
1958	Models for electronic composites based on effective medium theory. 2005 , 126-162	

1957 Resistor network model for electrical and thermal conduction problems. **2005**, 163-172

1956 Percolation model. **2005**, 173-207

1955 Lamination model. **2005**, 208-270

1954 Engineering problems. **2005**, 271-324

1953 Eshelby tensors. **2005**, 325-337

1952 Physical constants and properties of materials. **2005**, 338-341

1951 References. **2005**, 342-351

1950 Rearrangement of martensite variants under magnetic field applied along [001], [011] and [111] directions in Fe-31.2mol%Pd. **2005**, 21, 163-169

1949 Crystal structures and textures of hot forged Ni₄₈Mn₃₀Ga₂₂ alloy investigated by neutron diffraction technique. **2005**, 21, 1412-1416 20

1948 Stress Evolution in Sputter-deposited Fe-Pd Shape-memory Thin Films. **2005**, 20, 2279-2287 16

1947 Characterization of Martensitic Transformation in Ferromagnetic Shape Memory Alloys Co-Ni-Ga Melt-Spun Ribbons. **2005**, 475-479, 2033-2036 1

1946 The Stability of Magnetic-Field-Induced Strain in a NiMnGa Ferromagnetic Shape Memory Alloy. **2005**, 475-479, 2025-2028

1945 Temperature Dependence of Rearrangement of Martensite Variants in a Ferromagnetic Shape Memory Alloy Ni₂MnGa. **2005**, 475-479, 2021-2024 2

1944 Transformation behavior of NiMnGa thin films. **2005**, 14, S245-S252 67

1943 Bimorph-type Magnetostrictive Actuator/Sensor Thin Films. **2005**, 888, 1 2

1942 Martensitic Transformations of Ni₅₄Mn₂₅Ga_{21-x}Al_x Shape Memory Alloys. **2005**, 475-479, 1991-1994 15

1941 Martensitic Transformation and Magnetic-Field-Induced Strain in Magnetic Shape Memory Alloy NiMnGa Melt-Spun Ribbon. **2005**, 475-479, 2009-2012 6

1940 Magnetic Field-Enhanced Shape Memory Effect in Ni_{51.6}Mn_{23.4}Ga₂₅ Single Crystals. **2005**, 475-479, 2005-2008

1939	Thermoelastic martensitic transition and magnetic properties of the Ni _{2.14} Mn _{0.81} Fe _{0.05} Ga alloy in different structural states. 2005 , 17, 2129-2135		8
1938	Magnetic Field-Induced Strain of Martensite and Parent Phases in a Ferromagnetic Shape Memory Iron-Palladium Alloy. 2005 , 475-479, 1999-2004		1
1937	Investigation of magnetic domains in NiMnGa alloys with a scanning electron microscope. 2005 , 14, S211-S215		12
1936	Modeling of the magnetic field-induced martensitic variant reorientation and the associated magnetic shape memory effect in MSMAs. 2005 , 5761, 454		10
1935	Giant Magnetostrictive Materials. 2005 , 1-3		3
1934	Microstructural analysis and phase transformation in NiMnGa ferromagnetic shape memory alloys. 2005 , 14, 1403-1409		4
1933	Giant Magneto-Impedance of Co 50 Ni 22 Ga 28 Alloy with High Chemical Ordering. 2005 , 22, 2630-2632		1
1932	Magnetic, martensitic transformation, magnetostriction and shape memory effect in Co ₅₀ Ni ₂₀ Ga ₃₀ melt-spun ribbons. 2005 , 38, 1361-1364		10
1931	Method to study temperature and stress induced magnetic transitions. <i>Review of Scientific Instruments</i> , 2005 , 76, 013910	1.7	4
1930	Magnetoelastic and magnetostatic interactions in exchange-spring multilayers. <i>Physical Review B</i> , 2005 , 72,	3.3	28
1929	Structural, thermal, and electronic properties of Fe ₂ VSi _{1-x} Al _x . <i>Physical Review B</i> , 2005 , 71,	3.3	22
1928	Magnetic shape memory effect in an antiferromagnetic Mn-Fe(Cu) alloy. <i>Applied Physics Letters</i> , 2005 , 86, 022506	3.4	18
1927	Crystal structures of Ni ₂ MnGa from density functional calculations. 2005 , 78, 259-266		21
1926	Two-dimensional model for ferromagnetic martensites. <i>Physical Review B</i> , 2005 , 72,	3.3	4
1925	Phase transitions in Ni _{2+x} Mn _{1-x} Ga with a high Ni excess. <i>Physical Review B</i> , 2005 , 72,	3.3	160
1924	Martensitic transformation, ductility, and shape-memory effect of polycrystalline Ni ₅₆ Mn ₂₅ Fe _x Ga ₁₉ alloys. 2005 , 96, 843-846		35
1923	Physical properties of Ni ₂ /MnGe alloy films with different atomic orders. 2005 ,		
1922	Stress Induced and Magnetic Field Enhanced Twin Variants Reorientation in NiMnGa Single Crystal. 2005 , 475-479, 2013-2016		4

1921	The effect of doped elements on the martensitic transformation in NiMnGa magnetic shape memory alloy. 2005 , 14, S236-S238		27
1920	Magnetostriction of Ni/sub 2/MnGa in low and intermediate temperature phases. 2005 ,		1
1919	Fundamental structure of a Ni ₂ MnGa intermediate phase having an orthorhombic lattice. 2005 , 14, S197-S200	15	
1918	Quasi-static modeling of NiMnGa magnetic shape memory alloy. 2005 ,		3
1917	A Thermo-Magneto-Mechanical Model for Ferromagnetic Shape Memory Thin Film Actuators. 2005 ,	193	
1916	Magnetic domains in NiMnGa martensitic thin films. 2005 , 17, 5215-5224		27
1915	Low-Temperature Solution Synthesis of Nanocrystalline Binary Intermetallic Compounds Using the Polyol Process. 2005 , 17, 6835-6841		122
1914	Temperature dependence of the giant magnetostrain in a NiMnGa magnetic shape memory alloy. <i>Applied Physics Letters</i> , 2005 , 86, 252508	3-4	28
1913	Magnetic field-induced martensitic variant reorientation in magnetic shape memory alloys. 2005 , 85, 4289-4329		111
1912	Large energy absorption in NiMnGa/polymer composites. <i>Journal of Applied Physics</i> , 2005 , 97, 10M319	2.5	55
1911	Transport properties of the ferromagnetic Heusler alloy Co ₂ TiSn. <i>Physical Review B</i> , 2005 , 72,	3-3	41
1910	Low-temperature polyol synthesis of AuCuSn ₂ and AuNiSn ₂ : using solution chemistry to access ternary intermetallic compounds as nanocrystals. 2005 , 127, 7326-7		93
1909	Magnetoplasticity. 2005 , 96, 703-709		18
1908	Martensitic transformation and shape memory effect in a ferromagnetic shape memory alloy: Mn ₂ NiGa. <i>Applied Physics Letters</i> , 2005 , 87, 262504	3-4	161
1907	Phase-field model for ferromagnetic shape-memory alloys. 2005 , 85, 533-541		59
1906	Recent breakthrough development of the magnetic shape memory effect in NiMnGa alloys. 2005 , 14, S223-S235		109
1905	Microstructure of martensitic phase in the Co ₃₉ Ni ₃₃ Al ₂₈ shape memory alloys revealed by transmission electron microscopy. <i>Journal of Alloys and Compounds</i> , 2005 , 400, 145-149	5-7	21
1904	NiMnGa shape memory alloys development in China. 2005 , 9, 319-325		3

1903	Typed-new multifunctional Mn-rich antiferromagnetic alloys. 2005 , 9, 326-330		8
1902	Anomalous vibrational effects in nonmagnetic and magnetic Heusler alloys. <i>Physical Review B</i> , 2005 , 72, 3-3	3-3	118
1901	Ferromagnetic shape memory alloys: Theory of interactions. <i>Journal of Applied Physics</i> , 2005 , 97, 10M312.5		7
1900	Long-period martensitic structures of Ni-Mn-Ga alloys studied by high-resolution transmission electron microscopy. <i>Journal of Applied Physics</i> , 2005 , 97, 083516	2.5	69
1899	Growth and magnetic properties of NiMnGa thin films prepared by pulsed laser ablation. 2005 , 14, S293-S296		17
1898	Martensitic transitions and the nature of ferromagnetism in the austenitic and martensitic states of NiMnSn alloys. <i>Physical Review B</i> , 2005 , 72, 3-3	3-3	579
1897	Magnetic shape memory effect in the paramagnetic state in RCu ₂ (R=rare earth) antiferromagnets. <i>Physical Review B</i> , 2006 , 73, 3-3	3-3	9
1896	Cyclic actuation of NiMnGa composites. <i>Journal of Applied Physics</i> , 2006 , 99, 084905	2.5	15
1895	Lattice dynamics and phonon softening in NiMnAl Heusler alloys. <i>Physical Review B</i> , 2006 , 73, 3-3	3-3	29
1894	Magnetic-Field-Induced Strains of Bonded NiMnGa Melt-Spun Ribbons. 2006 , 23, 227-230		7
1893	First principles calculations on martensitic transformation and phase instability of NiMnGa high temperature shape memory alloys. <i>Applied Physics Letters</i> , 2006 , 89, 231921	3-4	50
1892	Modeling of the Stress- and Magnetic Field-Induced Variant Reorientation in MSMA. 2006 , 1		1
1891	chapter 1 Giant Magnetostrictive Materials. 2006 , 16, 1-39		41
1890	Epitaxial Growth and Characterization of Single Crystal Ferromagnetic Shape Memory Co ₂ NiGa Films. 2006 , 342, 35-42		4
1889	Vacancy induced structural and magnetic transition in MnCo _{1-x} Ge. <i>Applied Physics Letters</i> , 2006 , 89, 262504	3-4	107
1888	Magnetically controlled high damping in ferromagnetic Ni ₅₂ Mn ₂₄ Ga ₂₄ single crystal. <i>Applied Physics Letters</i> , 2006 , 89, 101911	3-4	18
1887	Observation of field-induced reverse transformation in ferromagnetic shape memory alloy Ni ₅₀ Mn ₃₆ Sn ₁₄ . <i>Applied Physics Letters</i> , 2006 , 88, 132505	3-4	174
1886	Microstructure and high-temperature shape-memory effect in Ni ₅₄ Mn ₂₅ Ga ₂₁ alloy. 2006 , 16, 502-506		6

1885	Magnetism and the defect state in the magnetocaloric antiperovskite Mn_3GaC11 . 2006 , 18, 1677-1686		43
1884	Magnetization curves for tetragonal martensites: Experiments and modeling. <i>Journal of Applied Physics</i> , 2006 , 99, 103906	2.5	5
1883	Hysteresis in Shape-Memory Materials. 2006 , 467-553		7
1882	Effect of magnetic field on martensitic transition of $Ni_{46}Mn_{41}In_{13}$ Heusler alloy. <i>Applied Physics Letters</i> , 2006 , 88, 122507	3.4	241
1881	Magnetostriction studies in an antiferromagnetic polycrystalline $Mn_{42}Fe_{58}$ alloy. <i>Applied Physics Letters</i> , 2006 , 89, 262501	3.4	24
1880	Metamagnetic shape memory effect in a Heusler-type $Ni_{43}Co_7Mn_{39}Sn_{11}$ polycrystalline alloy. <i>Applied Physics Letters</i> , 2006 , 88, 192513	3.4	335
1879	ϵ dependence of the lattice instability of cubic Heusler alloys from first principles. <i>Applied Physics Letters</i> , 2006 , 88, 111903	3.4	69
1878	Magnetic properties of $Co_{50}Ni_{50}$ melt-spun ribbon. <i>Journal of Applied Physics</i> , 2006 , 100, 053916	2.5	7
1877	Physical and electronic structure and magnetism of Mn_2NiGa : Experiment and density-functional theory calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	151
1876	A study of the magnetic resonance in a single-crystal $Ni_{50.47}Mn_{28.17}Ga_{21.36}$ alloy. 2006 , 18, 7613-27		8
1875	Microstructure evolution in $CoNiGa$ shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2006 , 420, 145-157	5.7	50
1874	Magnetic properties of ferromagnetic shape memory alloys $Ni_{50+x}Mn_{12.5}Fe_{12.5}Ga_{25-x}$. <i>Journal of Alloys and Compounds</i> , 2006 , 426, 223-227	5.7	19
1873	Microstructure and low-temperature phase transition in Ni_2FeGa Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2006 , 425, 176-180	5.7	10
1872	Stress-induced martensitic transformation of a $Ni_{54}Fe_{19}Ga_{27}$ single crystal in compression. <i>Intermetallics</i> , 2006 , 14, 1493-1500	3.5	13
1871	High field X-ray diffraction studies on magnetic refrigerants. 2006 , 23, 153-163		4
1870	Neutron study of the martensitic transformation in Ni-Fe-Ga alloys. 2006 , 23, 71-74		7
1869	Energy evaluation for twinning plane movement under magnetic field in ferromagnetic shape memory alloys. 2006 , 23, 45-50		7
1868	Testing and modeling of $NiMnGa$ ferromagnetic shape memory alloy for static and dynamic loading conditions. 2006 ,		2

1867	Magnetocrystalline anisotropy and twinning stress in Ni-Mn-Ga ferromagnetic shape memory alloys. 2006 , 51, 315-318	13
1866	Sensing behavior of ferromagnetic shape memory Ni-Mn-Ga. 2006 , 6170, 376	
1865	Effect of Alloying Elements on fcc/hcp Martensitic Transformation and Shape Memory Properties in Co-Al Alloys. 2006 , 47, 2381-2386	18
1864	Magnetic Properties and Martensite Structures of Ni ₅₀ Mn ₂₈ Ga ₂₂ Ferromagnetic Shape Memory Alloy. 2006 , 47, 612-614	
1863	Magnetic properties of Ni-Mn-Ga Heusler alloy films. 2006 , 3, 143-146	8
1862	The effect of Ge substitution in Ni ₂ MnGa _{1-x} Gex Heusler alloys and films. 2006 , 3, 147-150	5
1861	Large spontaneous shape memory and magnetic-field induced strain in Ni ₅₁ Mn _{25.5} Ga _{23.5} single crystal. 2006 , 203, 2532-2537	2
1860	Effect of Rare Earths on Electronic Structure of (110) Twin Martensite Boundary for Ni ₂ MnGa Alloy. 2006 , 24, 372-375	1
1859	Magnetic-field-induced shape recovery by reverse phase transformation. 2006 , 439, 957-60	1442
1858	Effect of magnetic field on martensitic transformation temperature in Ni ₅₀ Mn ₂₈ Ga ferromagnetic shape memory alloys. 2006 , 54, 493-499	63
1857	Magnetic domain structure in the presence of very thin martensite plates: Electron holography study on a thin-foil Fe ₃ 1.2at.%Pd alloy. 2006 , 54, 1233-1239	13
1856	Effect of aging on transformation temperatures and microstructure of an Fe-doped Ni ₅₀ Mn ₂₈ Ga ferromagnetic shape memory alloy. 2006 , 438-440, 982-985	8
1855	Crystal structure and macrotwin interface of five-layered martensite in Ni ₅₀ Mn ₂₈ Ga magnetic shape memory alloy. 2006 , 438-440, 961-964	30
1854	Shape memory and magnetic properties of Co-Al ferromagnetic shape memory alloys. 2006 , 438-440, 1045-1049	35
1853	Effects of magnetic field and hydrostatic pressure on the martensitic transformation temperature of Ni ₅₀ Mn ₂₈ Ga ferromagnetic shape memory alloys. 2006 , 438-440, 952-956	13
1852	Martensitic transition and magnetic properties in Ni ₅₀ Mn ₂₈ alloys. 2006 , 438-440, 911-915	93
1851	Martensitic and magnetic transformations of Ni ₅₀ Ga ₂₈ Fe ₂₂ Co ferromagnetic shape memory alloys. 2006 , 438-440, 970-973	26
1850	Surface characteristics of Ni ₅₀ Ga ₂₈ Fe sputtered thin films. 2006 , 438-440, 994-998	5

1849	Phonon dispersion in the ferromagnetic shape memory alloy Ni ₂ MnGa studied by neutron spectroscopy. 2006 , 438-440, 450-453		6
1848	Effect of ageing in Ni ₅₀ Be ₃₀ Ga ferromagnetic shape memory alloys. 2006 , 438-440, 919-922		13
1847	Effect of solidification rate on microstructure and crystal orientation of ferromagnetic shape memory alloys Co ₂₀ Ni ₈₀ Al. 2006 , 438-440, 1061-1064		10
1846	Structure of the layered martensitic phases of Ni ₅₀ Mn ₅₀ Ga alloys. 2006 , 438-440, 931-934		29
1845	Magneto-mechanical evaluation for twinning plane movement driven by magnetic field in ferromagnetic shape memory alloys. 2006 , 438-440, 12-17		42
1844	Model for temperature dependence of field-induced strain in ferromagnetic shape memory alloys. 2006 , 438-440, 445-449		14
1843	Electro-shape-memory effect in ferroelectric martensite. 2006 , 438-440, 1071-1076		7
1842	TEM studies of crystallographic and magnetic microstructures in Ni-based ferromagnetic shape memory alloys. 2006 , 438-440, 1050-1053		24
1841	Thermally and stress-induced martensitic transformation in Co ₂₀ Ni ₈₀ Al ferromagnetic shape memory alloy single crystals. 2006 , 438-440, 875-878		13
1840	High-field X-ray diffraction measurements of novel ferromagnetic shape-memory alloy Ni ₅₀ Mn ₃₆ Sn ₁₄ . <i>Physica B: Condensed Matter</i> , 2006 , 383, 24-25	2.8	12
1839	An X-ray study of non-zero nickel moment in a ferromagnetic shape-memory alloy. 2006 , 303, 20-25		18
1838	Electrical transport and thermal properties of ferromagnetic shape memory alloy Ni _{49.4} Mn ₃₀ Ga _{20.6} . 2006 , 303, 261-265		8
1837	Adjusting the crystal structure of NiMnGa shape memory ferromagnets. 2006 , 305, 275-277		27
1836	Incommensurate modulated structure of the ferromagnetic shape-memory Ni ₂ MnGa martensite. 2006 , 179, 3525-3533		71
1835	Magnetic properties of a rapidly quenched Ni ₅₀ Mn ₅₀ Ga shape memory alloy. 2006 , 129, 163-166		29
1834	Modeling the strain response, magneto-mechanical cycling under the external stress, work output and energy losses in Ni ₅₀ Mn ₅₀ Ga. 2006 , 38, 551-563		47
1833	Model calculation of 3D-phase transformation diagram of ferromagnetic shape memory alloys. 2006 , 38, 564-570		10
1832	Stress dependence of magnetic shape memory effect and its model. 2006 , 438-440, 1003-1006		13

1831	Preparation and characterization of NiMnGa high temperature shape memory alloy thin films using rf magnetron sputtering method. 2006 , 438-440, 986-989	11
1830	Preferential reorientation of twin variants in NiMnGa single crystal. 2006 , 438-440, 1022-1025	5
1829	Magnetocrystalline anisotropy constant and twinning stress in martensite phase of NiMnGa. 2006 , 438-440, 948-951	14
1828	High temperature atomic rearrangements in melt-spun NiMnGa ribbons. 2006 , 438-440, 927-930	12
1827	Martensitic transition and superelasticity of CoNiAl ferromagnetic shape memory alloys with β two-phase structure. 2006 , 438-440, 1054-1060	65
1826	Magnetic field-control of microstructure and function of materials exhibiting solid-solid phase transformation. 2006 , 7, 350-355	17
1825	High Temperature Shape Memory Alloys Problems and Prospects. 2006 , 17, 1041-1047	104
1824	Modelling the phase diagram of magnetic shape memory Heusler alloys. 2006 , 39, 865-889	279
1823	Magnetic domains in martensite of the Ni-Mn-Ga alloy. 2006 , 101, 446-449	1
1822	Martensitic transformations and magnetic-field-induced strains in Ni ₅₀ Mn _{50-x} Ga _x alloys. 2006 , 102, 140-148	14
1821	Spin correlations and a mesoscopic structure in Ni-Mn-Ga. 2006 , 102, 102-113	12
1820	Phase equilibria and phase transformation of CoNiGa ferromagnetic shape memory alloy system. 2006 , 27, 75-82	47
1819	Thermal, magnetic, and magnetoelastic data on three different Heusler alloys based on Ni-Mn-X (X=Ga, In, or Sn). 2006 , 42, 1770-1777	3
1818	A new phase induced in Ni ₂ MnGa by uniaxial stress. 2006 , 54, 585-588	24
1817	Grain boundary engineering by magnetic field application. 2006 , 54, 969-975	50
1816	The effect of aging on the NiMnGa high-temperature shape memory alloys. 2006 , 54, 1139-1143	25
1815	Effect of ageing on the martensitic transformation of NiFeGa alloys. 2006 , 54, 1105-1109	47
1814	Temperature dependence of reversible field-induced strain in NiMnGa single crystal. 2006 , 54, 1497-1500	28

1813	Magnetization changes in NiMnGa magnetic shape memory single crystal during compressive stress reorientation. 2006 , 54, 1549-1552	23
1812	A model for ferromagnetic martensites. 2006 , 54, 1809-1814	2
1811	Effect of atomic order on the martensitic transformation of NiBeGa alloys. 2006 , 54, 1985-1989	72
1810	Stress-assisted reversible magnetic field-induced phase transformation in Ni ₂ MnGa magnetic shape memory alloys. 2006 , 55, 403-406	67
1809	Magnetic domain structure in a metamagnetic shape memory alloy Ni ₄₅ Co ₅ Mn _{36.7} In _{13.3} . 2006 , 55, 683-686	5
1808	One-way shape memory effect due to stress-assisted magnetic field-induced phase transformation in Ni ₂ MnGa magnetic shape memory alloys. 2006 , 55, 803-806	18
1807	Magnetic force microscopy observations of CoNiGa and CoNiAl alloys with two-phase structures. 2006 , 55, 755-758	14
1806	Magnetic indication of the stress-induced martensitic transformation in ferromagnetic NiMnGa alloy. 2006 , 302, 387-390	17
1805	Martensitic transformation and shape memory effect of a NiBeGa polycrystalline alloy. 2006 , 302, 459-462	12
1804	Magnetostrain and Magnetization of the Ni 50 Mn 27.5 Ga 22.5 Single Crystal. 2006 , 23, 1293-1295	10
1803	Effect of heat treatment on the properties of Co ₅₀ Ni ₂₀ Ga ₃₀ ferromagnetic shape memory alloy ribbons. 2006 , 39, 2886-2889	10
1802	Introduction to shape memory materials. 2006 , 85-103	2
1801	Magnetocrystalline Anisotropy and Twinning Stress of 10M and 2M Martensites in Ni-Mn-Ga System. 2006 , 512, 195-200	2
1800	Modulus Increase with Magnetic Field in Ferromagnetic Shape Memory NiMnGa. 2006 , 17, 123-131	15
1799	Itinerant-Electron Metamagnetism. 2006 , 683-744	2
1798	Ferromagnetic Shape-Memory Alloys. 2006 , 512, 145-152	16
1797	Mechanical Properties and Fracture Analysis of Mn-Rich Ni-Mn-Ga Polycrystalline Alloys. 2006 , 324-325, 691-694	2
1796	Shape Memory Effect in Ferromagnetic Ni-Mn-Ga Alloy. 2006 , 36, 83-88	2

1795	Direct optical observation of magnetic domains in NiMnGa martensite. <i>Applied Physics Letters</i> , 2006 , 89, 082502	3.4	28
1794	Structural dependence of some physical properties of the Ni ₂ MnGe Heusler alloy films. <i>Journal of Applied Physics</i> , 2006 , 99, 063902	2.5	22
1793	Temperature and magnetic-field dependence of the elastic constants of Ni-Mn-Al magnetic Heusler alloys. <i>Physical Review B</i> , 2006 , 74,	3.3	22
1792	Structure, magnetostriction, and magnetic properties of melt-spun FeGa alloys. <i>Journal of Applied Physics</i> , 2006 , 99, 093904	2.5	9
1791	Thermoelastic martensitic transformation in ferromagnetic NiFeAl alloys: Effect of site disorder. <i>Applied Physics Letters</i> , 2006 , 89, 093119	3.4	24
1790	Nanometer scale correlation of magnetic and structural features in Ni ₂ MnGa. 2006 ,		
1789	Stress-induced change of magnetization in a NiMnGa single crystal under magnetomechanical training. <i>Applied Physics Letters</i> , 2006 , 88, 232504	3.4	4
1788	Intermartensitic transformations in Ni ₂ Mn _{1-x} CoxGa Heusler alloys. <i>Journal of Applied Physics</i> , 2006 , 99, 08M705	2.5	9
1787	Magnetomechanical hydraulic-servo apparatus for investigation of magnetomechanical coupling properties of magnetic materials. <i>Review of Scientific Instruments</i> , 2006 , 77, 086101	1.7	20
1786	Martensitic microstructure and its damping behavior in Ni ₅₂ Mn ₁₆ Fe ₈ Ga ₂₄ single crystals. <i>Physical Review B</i> , 2006 , 73,	3.3	22
1785	Magnetic-field-induced strain in an antiferromagnetic EMnNi alloy. <i>Journal of Applied Physics</i> , 2006 , 99, 033908	2.5	16
1784	Magnetic shape memory in Ni ₂ MnGa as influenced by applied stress. <i>Applied Physics Letters</i> , 2006 , 89, 221905	3.4	9
1783	Observation of large magnetoresistance of magnetic Heusler alloy Ni ₅₀ Mn ₃₆ Sn ₁₄ in high magnetic fields. <i>Applied Physics Letters</i> , 2006 , 89, 182510	3.4	227
1782	Mechanomagnetic spectroscopy of phase transitions in ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2006 , 89, 061917	3.4	13
1781	Effect of twin boundaries on electrical transport in a NiMnGa single crystal. <i>Applied Physics Letters</i> , 2006 , 89, 222107	3.4	13
1780	Development of a Quasi-static Model of NiMnGa Magnetic Shape Memory Alloy. 2007 , 18, 611-622		12
1779	Original hybrid control for robotic structures using magnetic shape Memory Alloys Actuators. 2007 ,		9
1778	On the role of the cooling rate and crystallographic orientation on the shape memory properties of CoNiAl single crystals under compression. 2007 , 16, 1006-1015		8

1777	Do twin boundaries affect the resistivity of single crystal Ni ₄₉ Mn ₂₉ Ga ₂₂ Heusler alloy?. 2007 , 40, 4998-5001		3
1776	Magnetic-Field-Induced Strain of Shape-Memory Alloy Fe ₃ Pt Studied by a Capacitance Method in a Pulsed Magnetic Field. 2007 , 46, 146-151		9
1775	Magnetic Field-Induced Strain of Ni ₅₀ Mn ₃₆ Sn ₁₄ Alloy in Pulsed Magnetic Field. 2007 , 46, 995-998		29
1774	A model for giant magnetostrain and magnetization in the martensitic phase of NiMnGa alloys. 2007 , 16, 779-783		11
1773	Giant low-field magnetic entropy changes in Ni ₄₅ Mn ₄₄ Cr _x Sn ₁₁ ferromagnetic shape memory alloys. 2007 , 40, 7287-7290		18
1772	Observation of exchange bias in the martensitic state of Ni ₅₀ Mn ₃₆ Sn ₁₄ Heusler alloy. <i>Applied Physics Letters</i> , 2007 , 91, 112505	3-4	144
1771	Solid state reaction at the interface between Heusler alloys and Al cap accelerated by elevated temperature and rough surface. <i>Applied Physics Letters</i> , 2007 , 91, 192501	3-4	11
1770	Realization of magnetic field-induced reversible martensitic transformation in NiCoMnGa alloys. <i>Applied Physics Letters</i> , 2007 , 91, 102507	3-4	135
1769	Low-field inverse magnetocaloric effect in Ni ₅₀ Mn _{39+x} Sn ₁₁ Heusler alloys. <i>Applied Physics Letters</i> , 2007 , 90, 042507	3-4	200
1768	Stress-assisted magnetic-field-induced strain in Ni ₅₀ Be ₂ Co ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2007 , 90, 062505	3-4	60
1767	Direct observation of field-induced variant transformation in Fe ₃ Pt using pulsed magnetic field x-ray diffraction. <i>Journal of Applied Physics</i> , 2007 , 102, 113917	2-5	1
1766	Ferromagnetic shape memory alloys: A theoretical approach. <i>Journal of Applied Physics</i> , 2007 , 101, 123917	17	21
1765	Correlation of electronic structure and martensitic transition in epitaxial Ni ₂ MnGa films. <i>Physical Review B</i> , 2007 , 76,	3-3	73
1764	Giant magnetothermal conductivity in the Ni ₅₀ Mn ₃₆ Sn ₁₄ ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2007 , 91, 012510	3-4	108
1763	Magnetization easy axis in martensitic Heusler alloys estimated by strain measurements under magnetic field. <i>Applied Physics Letters</i> , 2007 , 91, 251915	3-4	44
1762	Stress-induced magnetization in polycrystalline Ni ₅₀ Be ₂ Co ferromagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2007 , 91, 141907	3-4	11
1761	Increasing magnetoplasticity in polycrystalline Ni-Mn-Ga by reducing internal constraints through porosity. 2007 , 99, 247201		72
1760	Crystal Growth of Magnetic Materials. 2007 ,		

1759	Growth, structure, and texture of epitaxial Fe _{100-x} Pdx films deposited on MgO(100) at room temperature: An x-ray diffraction study. <i>Physical Review B</i> , 2007 , 76,	3.3	22
1758	Effect of Co and Fe on the inverse magnetocaloric properties of Ni-Mn-Sn. <i>Journal of Applied Physics</i> , 2007 , 102, 033903	2.5	162
1757	A Novel Linear Actuator and Its Controlling System. 2007 ,		
1756	Reversible strain induced by martensite variant rearrangement under magnetic field and mechanical loading of FeBd single crystals. <i>Applied Physics Letters</i> , 2007 , 90, 251905	3.4	6
1755	Substrate-free structures of iron-doped Ni-Mn-Ga thin films prepared by pulsed laser deposition. 2007 , 59, 122-125		4
1754	Magnetic-Field-Induced Strain of Fe-based Ferromagnetic Shape-Memory Alloy in a Pulsed Magnetic Field. 2007 , 1050, 1		
1753	Onset Magnetic Field for Rearrangement of Martensite Variants in Ni ₂ MnGa. 2007 , 561-565, 1109-1112		
1752	Effect of Magnetic Field on Martensitic Transformation Temperature in Ni ₂ MnGa with Single Variant and Multi-Variant States. 2007 , 539-543, 3243-3248		
1751	Heusler Type CoNiGa Alloys with High Martensitic Transformation Temperature. 2007 , 546-549, 2241-2244		2
1750	Modeling magnetoelasticity and magnetoplasticity with disconnections and disclinations. 2007 , 1050, 1		2
1749	Cast and Rolling Textures of NiMnGa Alloys. 2007 , 1050, 1		6
1748	Magnetic and calorimetric investigations of ferromagnetic shape memory alloy Ni ₅₄ Fe ₁₉ Ga ₂₇ . 2007 , 40, 3292-3299		14
1747	Control of Phase Transformation Temperatures by Substituents in Ni-Fe-Ga Ferromagnetic Shape Memory Alloys. 2007 , 48, 2847-2850		2
1746	?????????????????. 2007 , 46, 171-174		3
1745	Magnetic Properties of MnBi in High Magnetic Fields and High Temperature. 2007 , 71, 489-493		9
1744	Interaction between Magnetic Domain Walls and Antiphase Boundaries in Ni ₂ Mn(Al,Ga) Studied by Electron Holography and Lorentz Microscopy. 2007 , 48, 2636-2641		17
1743	Electron Holography of Ferromagnetic Materials. 2007 ,		
1742	Phase transformation and microstructure of Ni ₅₄ Mn ₁₉ Ga ₂₇ ferromagnetic shape memory alloy particles. <i>Physica Scripta</i> , 2007 , T129, 227-230	2.6	5

- 1741 Shape memory effect and magnetic properties of Co-Fe ferromagnetic shape memory alloys. **2007**,
- 1740 Phase transformation and magnetic properties in NiMnGa Heusler alloys. *Journal of Alloys and Compounds*, **2007**, 432, 23-29 5.7 31
- 1739 Structure formation in martensitic Ni₅₀Mn₃₀Ga₂₀ MSM alloy. *Journal of Alloys and Compounds*, **2007**, 443, 99-104 5.7 48
- 1738 Phase equilibria in the Ni-rich portion of the NiGa binary system. *Intermetallics*, **2007**, 15, 148-153 3.5 27
- 1737 Self-diffusion in Ni₂MnGa. *Intermetallics*, **2007**, 15, 1078-1083 3.5 19
- 1736 PdInFe shape memory alloy. *Applied Physics Letters*, **2007**, 90, 261906 3.4 17
- 1735 Magnetic superelasticity and inverse magnetocaloric effect in Ni-Mn-In. *Physical Review B*, **2007**, 75, 3.3 415
- 1734 A multiscale model of reorientation in magnetic shape memory alloys. **2007**, 16, S1-S10 2
- 1733 Transmission Electron Microscopy on Magnetic Phase Transformations in Functional Materials. **2007**, 1
- 1732 Chemical order in off-stoichiometric NiMnGa ferromagnetic shape-memory alloys studied with neutron diffraction. **2007**, 87, 3437-3447 61
- 1731 Electron Holography: Phase Imaging with Nanometer Resolution. **2007**, 37, 729-767 152
- 1730 Compression-induced texture change in NiMnGa-polymer composites observed by synchrotron radiation. *Journal of Applied Physics*, **2007**, 101, 09C501 2.5 20
- 1729 Absence of magnetic domain wall motion during magnetic field induced twin boundary motion in bulk magnetic shape memory alloys. *Applied Physics Letters*, **2007**, 90, 192504 3.4 65
- 1728 A quasi-static model for NiMnGa magnetic shape memory alloy. **2007**, 16, S11-S21 30
- 1727 Energy harvesting using martensite variant reorientation mechanism in a NiMnGa magnetic shape memory alloy. *Applied Physics Letters*, **2007**, 90, 172505 3.4 127
- 1726 Magnetization rotation and rearrangement of martensite variants in ferromagnetic shape memory alloys. *Applied Physics Letters*, **2007**, 90, 172504 3.4 28
- 1725 Testing system for ferromagnetic shape memory microactuators. *Review of Scientific Instruments*, **2007**, 78, 073907 1.7 12
- 1724 Magnetic susceptibility of martensitic NiMnGa film. *Journal of Applied Physics*, **2007**, 101, 053909 2.5 13

1723	Direct evidence on magnetic-field-induced phase transition in a NiCoMnIn ferromagnetic shape memory alloy under a stress field. <i>Applied Physics Letters</i> , 2007 , 90, 101917	3.4	30
1722	Ferromagnetic shape memory effects in an iron palladium alloy. 2007 , 2, 505-528		2
1721	Microscopic simulations of the behavior of ferroelectrics and ferromagnetics. <i>Physica Scripta</i> , 2007 , T129, 136-139	2.6	2
1720	Study on ferromagnetic shape memory alloy NiMnGa films. 2007 , 201, 5348-5353		8
1719	Understanding modulated twin transition at the atomic level. 2007 , 55, 1731-1740		20
1718	Anti-phase boundaries and magnetic domain structures in Ni ₂ MnGa-type Heusler alloys. 2007 , 55, 2621-2636		67
1717	Textured polymer bonded composites with NiMnGa magnetic shape memory particles. 2007 , 55, 2707-2713		105
1716	A constrained theory on actuation strain in ferromagnetic shape memory alloys induced by domain switching. 2007 , 55, 3261-3269		13
1715	Correlation between atomic order and the characteristics of the structural and magnetic transformations in NiMnGa shape memory alloys. 2007 , 55, 3883-3889		112
1714	On the stress-assisted magnetic-field-induced phase transformation in Ni ₂ MnGa ferromagnetic shape memory alloys. 2007 , 55, 4253-4269		111
1713	Experiment and theoretical prediction of martensitic transformation crystallography in a NiMnGa ferromagnetic shape memory alloy. 2007 , 55, 4731-4740		52
1712	Structure of twin boundaries in Mn-based shape memory alloy: A HRTEM study and the strain energy driving force. 2007 , 55, 5169-5176		15
1711	Magnetic domain memory in multiferroic Ni ₂ MnGa. 2007 , 55, 5419-5427		34
1710	Micromechanical modeling of the stress-induced superelastic strain in magnetic shape memory alloy. 2007 , 39, 1025-1034		19
1709	Microstructure, shape memory effect and mechanical properties of rapidly solidified CoNiAl magnetic shape memory alloys. 2007 , 454-455, 423-432		30
1708	New materials for micro-scale sensors and actuators. 2007 , 56, 1-129		384
1707	Magnetic shape memory behaviour. 2007 , 310, 2755-2760		8
1706	Polyester-bonded textured composites with single-crystalline shape memory NiMnGa particles. 2007 , 310, 2785-2787		12

1705	Phase transformation, magnetic property and microstructure of NiMnBeCoGa ferromagnetic shape memory alloys. 2007 , 310, 2764-2766	3
1704	Electronic aspects of the martensitic transition in NiMn based Heusler alloys. 2007 , 310, 2788-2789	112
1703	Modeling and simulation of magnetic-shape-memory polymer composites. 2007 , 55, 1462-1486	31
1702	Crystal growth of Co ₄₆ Ni ₂₇ Ga ₂₇ ferromagnetic shape memory alloys with large single-variant set. 2007 , 300, 272-276	7
1701	Evaluation of ferromagnetic shape-memory alloys by the extended H ₀ kel method. 2007 , 2, 313-318	3
1700	Magneto-structural transformation studies in melt-spun NiMnGa ribbons. 2007 , 56, 405-408	31
1699	Microstructure and precipitates in as-cast Co ₃₈ Ni ₃₃ Al ₂₉ shape memory alloy. 2007 , 57, 37-40	25
1698	Shape memory characteristics of dual-phase NiMnGa based high temperature shape memory alloys. 2007 , 57, 599-601	70
1697	The phase diagrams of NiMnGa alloys in the magnetic field. 2007 , 313, 312-316	5
1696	Phase transitions in NiMnGa alloys with the account of crystal lattice modulation. 2007 , 316, e591-e594	11
1695	Structure and properties of NiMnGa magnetic shape memory alloys containing minor addition of terbium. 2007 , 316, e595-e598	11
1694	Preparation of melt textured NiMnGa. 2007 , 316, 383-385	47
1693	Anisotropy of the magnetoresistance in ferromagnetic shape memory alloy Ni ₅₂ Mn _{16.4} Fe ₈ Ga _{23.6} single crystal. 2007 , 319, 69-72	3
1692	Influence of a magnetic field on the Jahn-Teller band effect in a conducting ferromagnet. 2007 , 104, 943-950	2
1691	Microstructure and phase transformations in a Ni ₅₀ Mn ₂₉ Ga ₁₆ Gd ₅ alloy with a high transformation temperature. 2007 , 42, 9216-9220	15
1690	Martensitic and Magnetic Transformation Behaviors in Heusler-Type NiMnIn and NiCoMnIn Metamagnetic Shape Memory Alloys. 2007 , 38, 759-766	247
1689	Phase Equilibria and Phase Transition of the NiBeGa Ferromagnetic Shape Memory Alloy System. 2007 , 38, 767-776	37
1688	Transmission Electron Microscopy on Magnetic Phase Transformations in Functional Materials. 2007 , 38, 815-820	13

1687	Structural and Magnetic Transitions in Fe-, Co-, and Al-Substituted Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. 2007 , 38, 2076-2084	6
1686	Magnetic and thermoelectric properties of Ni ₅₀ Mn ₃₆ Sn ₁₄ in high-magnetic fields. 2007 , 310, e994-e995	18
1685	Surface characteristics and nanoindentation study of NiMnGa ferromagnetic shape memory sputtered thin films. 2008 , 254, 2861-2865	13
1684	Ab initio investigation of twin boundary motion in the magnetic shape memory Heusler alloy Ni ₂ MnGa. 2008 , 43, 3825-3831	37
1683	Magneto-microstructural coupling during stress-induced phase transformation in Co ₄₉ Ni ₂₁ Ga ₃₀ ferromagnetic shape memory alloy single crystals. 2008 , 43, 6890-6901	11
1682	New Sequences of Phase Transition in Ni-Mn-Ga Ferromagnetic Shape Memory Nanoparticles. 2008 , 39, 466-469	17
1681	Domain Structure Produced by Confined Displacive Transformation and Its Response to the Applied Field. 2008 , 39, 1658-1664	4
1680	Pseudoelasticity and Cyclic Stability in Co ₄₉ Ni ₂₁ Ga ₃₀ Shape-Memory Alloy Single Crystals at Ambient Temperature. 2008 , 39, 2026-2039	50
1679	Phase Transition and Texture Evolution in the Ni-Mn-Ga Ferromagnetic Shape-Memory Alloys Studied by a Neutron Diffraction Technique. 2008 , 39, 3113-3119	6
1678	Application of MSM bulk material in a hybrid microactuator. 2008 , 205, 2307-2312	11
1677	Magnetoelastic modeling of magnetization rotation and variant rearrangement in ferromagnetic shape memory alloys. 2008 , 40, 1022-1036	16
1676	Comparison of different methods for studying magnetic domains in NiMnGa martensites. 2008 , 481-482, 302-305	8
1675	NiMnGa multifunctional compounds. 2008 , 481-482, 80-85	59
1674	Magnetic and structural transformation in off-stoichiometric NiMnGa alloys. 2008 , 476, 195-200	12
1673	Martensitic transformation and shape memory effect in Ni _{54.75} Mn _{13.25} Fe ₇ Ga ₂₅ ferromagnetic shape memory alloy. 2008 , 480, 472-476	7
1672	Structure and crystal growth in melt-spun Fe ₈₁ Ga ₁₉ alloys. <i>Physica B: Condensed Matter</i> , 2008 , 403, 3932-3936	3
1671	Ferromagnetic shape memory alloys: Scientific and applied aspects. 2008 , 142, 542-548	50
1670	Nonlinear Hamiltonian modelling of magnetic shape memory alloy based actuators. 2008 , 141, 536-547	29

1669	Influence of rare earth Gd addition on the structural and magnetic transitions of NiMnGa alloys. 2008 , 320, 63-67	16
1668	Microstructure and magnetic properties of Ni-rich Ni ₅₄ Mn _{25.7} Ga _{20.3} ferromagnetic shape memory alloy thin film. 2008 , 320, 1078-1082	10
1667	Magnetic transitions and structure of a NiMnGa ferromagnetic shape memory alloy prepared by melt spinning technique. 2008 , 320, L116-L120	11
1666	Development of NiMnGa-based ferromagnetic shape memory alloy by rapid solidification route. 2008 , 320, e730-e733	6
1665	Magnetic structures and magnetocrystalline anisotropy in bulk and thin film Fe ₃ Pt. 2008 , 254, 7843-7845	1
1664	In situ high-energy X-ray studies of magnetic-field-induced phase transition in a ferromagnetic shape memory Ni ₄₀ Mn ₁₀ alloy. 2008 , 56, 913-923	37
1663	A theoretical model of martensitic transformations in magnetic shape memory alloys: Model formulation and variant reorientation. 2008 , 56, 1001-1010	2
1662	Martensitic transformation and magnetic properties in Ni ₄₀ Fe ₁₀ Ga ₄₀ Co magnetic shape memory alloys. 2008 , 56, 3177-3186	51
1661	Microstructure of precipitates and magnetic domain structure in an annealed Co ₃₈ Ni ₃₃ Al ₂₉ shape memory alloy. 2008 , 56, 4470-4476	26
1660	Crystal structure of 7M modulated NiMnGa martensitic phase. 2008 , 56, 4529-4535	120
1659	Atomic ordering and magnetic properties in Ni ₂ Mn(GaxAl _{1-x}) Heusler alloys. 2008 , 56, 4789-4797	54
1658	Direct observation of AC field-induced twin-boundary dynamics in bulk NiMnGa. 2008 , 56, 5130-5137	35
1657	Activation of magnetic shape memory effect in NiMnGa alloys by mechanical and magnetic treatment. 2008 , 56, 5492-5499	71
1656	Thermal, structural and magnetic characterization of NiMnGa sheets fabricated by powder in tube roll bonding technique. 2008 , 151, 199-204	2
1655	Effect of precipitates on the stress-strain behavior under compression in polycrystalline Ni ₄₀ Fe ₁₀ Ga alloys. 2008 , 481-482, 101-104	17
1654	Microstructure and transformation temperature in alloys with a large magnetocrystalline anisotropy under external fields. 2008 , 481-482, 40-48	4
1653	Magnetic behavior in Ni ₄₀ Fe ₁₀ Ga martensitic phase. 2008 , 481-482, 318-321	9
1652	Lattice dynamics of NiMnAl Heusler alloys. 2008 , 481-482, 227-230	2

1651	Temperature dependence of rearrangement of martensite variants by magnetic field in 10M, 14M and 2M martensites of NiMnGa alloys. 2008 , 481-482, 306-309	33
1650	Effect of thermal treatments on the martensitic transformation in Co-containing NiMnGa alloys. 2008 , 481-482, 293-297	15
1649	NiMn-based magnetic shape memory alloys: Magnetic properties and martensitic transition. 2008 , 481-482, 49-56	42
1648	Crystallography and morphology of various interfaces in TiNi, TiPd and NiMnGa shape memory alloys. 2008 , 481-482, 18-27	30
1647	Analysis of structural and functional properties of Ni50Mn30Ga20 after plastic deformation. 2008 , 481-482, 266-270	18
1646	Ferromagnetic shape memory alloys: Alternatives to NiMnGa. 2008 , 481-482, 57-65	99
1645	Macroscopic behaviour of magnetic shape-memory polycrystals and polymer composites. 2008 , 481-482, 351-355	20
1644	Martensitic transformation in NiBeGa alloys. 2008 , 478, 125-129	25
1643	Recent topics in microstructure control by magnetic field in Ni2MnGa and CoPt and new transformation behavior in Ti-Ni-Fe alloys. 2008 , 158, 73-78	2
1642	Training, constraints, and high-cycle magneto-mechanical properties of Ni-Mn-Ga magnetic shape-memory alloys. 2008 , 158, 79-85	59
1641	Reversible and irreversible martensitic transformations in Fe-Pd and Fe-Pd-Co alloys. 2008 , 158, 107-112	14
1640	Effects of Fe and Co addition on the magnetoresistance in Ni-Mn-Ga films. 2008 , 158, 143-148	
1639	Influence of magnetism on the structural stability of cubic L21Ni2MnGa. 2008 , 158, 193-198	16
1638	Magnetization- and strain-dependent free energy model for FEM simulation of magnetic shape memory alloys. 2008 , 158, 205-211	13
1637	Phase diagram of Fe-doped Ni-Mn-Ga ferromagnetic shape-memory alloys. <i>Physical Review B</i> , 2008 , 77,	3-3 53
1636	Characteristics of thermoelastic martensitic transformation in ferromagnetic Fe-Co-Ni-Ti alloys alloyed with Cu. 2008 , 105, 564-567	8
1635	Magnetic properties of the Mn _{1.9} & Co _x Ge compounds with a hexagonal crystal structure. 2008 , 106, 481-489	10
1634	Magnetic shape memory and giant magnetocaloric effect in Heusler alloys. 2008 , 72, 527-528	

1633	Thermal stability of high-temperature NiMnGa alloys. 2008 , 58, 259-262		34
1632	Selected formation of a variant in L10-type CoPt realized by ordering heat treatment under a magnetic field. 2008 , 58, 811-814		18
1631	Microstructure characterization of the non-modulated martensite in NiMnGa alloy. 2008 , 59, 764-768		18
1630	Metamagnetic shape memory effect in NiMn-based Heusler-type alloys. 2008 , 18, 1837		82
1629	100 mm Wide Bore Cryocooled Hybrid Magnet for a High Field X-ray Diffractometer. 2008 , 18, 536-539		2
1628	Direct current electrical and microwave properties of polymer-multiwalled carbon nanotubes composites. <i>Journal of Applied Physics</i> , 2008 , 103, 054303	2.5	85
1627	Shape Memory Alloys. 2008 ,		48
1626	Effects of hydrostatic pressure on the magnetism and martensitic transition of NiMnIn magnetic superelastic alloys. <i>Applied Physics Letters</i> , 2008 , 92, 012515	3-4	113
1625	Magnetostructural transformation in NiMnInCo ribbons. <i>Applied Physics Letters</i> , 2008 , 92, 162509	3-4	46
1624	Magnetically induced reorientation of martensite variants in constrained epitaxial NiMnGa films grown on MgO(001). 2008 , 10, 023040		92
1623	Magnetostriction in Mn ₃ CuN. <i>Applied Physics Letters</i> , 2008 , 92, 161909	3-4	161
1622	Kinetic arrest of martensitic transformation in the NiCoMnIn metamagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2008 , 92, 021908	3-4	195
1621	Twin boundary structure of the modulated variants in a NiMnGa alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 458, 218-222	5-7	10
1620	Influence of solidification microstructure on the magnetic properties of NiMnSn Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 38-46	5-7	56
1619	Phase equilibria in the NiBeGa alloy system. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 213-219	5-7	27
1618	Microstructure and martensitic transformation of NiMnCoAlTi ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 465, 173-176	5-7	13
1617	Phase equilibria in the NiCoGa alloy system. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 208-213	5-7	14
1616	Phase separation and magnetic properties of CoNiAl ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2008 , 16, 447-452	3-5	20

1615	Thermal characteristics of Ni _{49.8} Mn _{28.5} Ga _{21.7} and Ni _{49.8} Mn _{28.5} Ga _{21.7} ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2008 , 16, 751-757	3-5	24
1614	Effect of ball milling and post-annealing on magnetic properties of Ni _{49.8} Mn _{28.5} Ga _{21.7} alloy powders. <i>Intermetallics</i> , 2008 , 16, 1279-1284	3-5	41
1613	Introduction to Shape Memory Alloys. 2008 , 1-51		68
1612	Magnetostructural phase transitions in Ni(50)Mn(25+x)Sb(25-x) Heusler alloys. 2008 , 20, 235204		81
1611	Electron holography of magnetic materials. 2008 , 41, 183002		49
1610	Atomic ordering and magnetic properties in the Ni ₄₅ Co ₅ Mn _{36.7} In _{13.3} metamagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2008 , 93, 232503	3-4	105
1609	Microstructure of Magnetic Shape-Memory Alloys: Between Magnetoelasticity and Magnetoplasticity. 2008 , 583, 43-65		37
1608	Local atomic arrangement and martensitic transformation in Ni ₅₀ Mn ₃₅ In ₁₅ : an EXAFS study. 2008 , 41, 045004		18
1607	Phase-field simulations of stress-strain behavior in ferromagnetic shape memory alloy Ni ₂ MnGa. <i>Journal of Applied Physics</i> , 2008 , 104, 073906	2-5	35
1606	Smart materials applications for pediatric cardiovascular devices. 2008 , 63, 552-8		70
1605	Numerical Simulation of Twin-Twin Interaction in Magnetic Shape-Memory Alloys. 2008 , 1090, 52601		1
1604	Magnetic shape memory effect in thin foils. <i>Applied Physics Letters</i> , 2008 , 93, 022503	3-4	37
1603	Magnetic-field-induced strain assisted by tensile stress in L10 martensite of a Ni _{49.8} Mn _{28.5} Ga _{21.7} alloy. <i>Applied Physics Letters</i> , 2008 , 93, 152503	3-4	12
1602	Comparative Study of Structural and Magnetic Properties of Bulk and Powder Ni ₅₂ Fe ₁₇ Ga ₂₇ Co ₄ Magnetic Shape Memory Alloy. 2008 , 44, 3025-3027		7
1601	TEM investigation of intermediate phase transformation and micromodulation in Ni _{49.8} Mn _{28.5} Ga _{21.7} ferromagnetic shape memory alloys. 2008 , 24, 920-926		5
1600	Domain switching in rhombohedral PZT ceramics under electrical and mechanical loading. 2008 , 24, 927-933		9
1599	Giant magnetic field induced strain in ferromagnetic shape memory alloys and its condition. 2008 , 24, 890-895		7
1598	Intermartensitic transitions in Ni _{49.8} Mn _{28.5} Ga _{21.7} Heusler alloys. 2008 , 20, 505206		4

1597	Size dependence of martensite transformation temperature in ferromagnetic shape memory alloy FePd. <i>Journal of Applied Physics</i> , 2008 , 103, 063910	2.5	50
1596	Acoustic-Assisted, Magnetic-Field-Induced Actuation of Ni-Mn-Ga Single Crystals. 2008 , 583, 147-168		
1595	Stress-induced martensite variant reorientation in magnetic shape memory NiMnGa single crystal studied by neutron diffraction. 2008 , 17, 035014		12
1594	Magnetic field-induced twin boundary motion in polycrystalline NiMnGa fibres. 2008 , 10, 073002		60
1593	In situneutron diffraction study of micromechanical interactions and phase transformation in NiMnGa alloy under uniaxial and hydrostatic stress. 2008 , 20, 104256		2
1592	Anomalous magnetic properties in Ni ₅₀ Mn ₃₅ In ₁₅ . 2008 , 41, 235006		25
1591	Magnetic force microscopy observation of undercooled Fe ₈₁ Ga ₁₉ magnetostrictive alloys. 2008 , 41, 205405		9
1590	Magnetic field-induced reverse transformation in B2-type NiCoMnAl shape memory alloys. <i>Applied Physics Letters</i> , 2008 , 93, 091906	3.4	98
1589	Growth behavior and intrinsic properties of vapor-deposited iron palladium thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 046108	2.5	15
1588	The magnetic field induced strain without prestress and with stress in a polycrystalline MnBeCu antiferromagnetic alloy. <i>Applied Physics Letters</i> , 2008 , 93, 122510	3.4	11
1587	Modulus mapping of nanoscale closure variants in NiMnGa. <i>Applied Physics Letters</i> , 2008 , 93, 031905	3.4	13
1586	Epitaxial NiMnGa films deposited on SrTiO ₃ and evidence of magnetically induced reorientation of martensitic variants at room temperature. <i>Applied Physics Letters</i> , 2008 , 92, 072502	3.4	62
1585	An iterative approach to simulate magnetic micro systems by changing the magnetic properties. 2008 ,		1
1584	Breaching the work output limitation of ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2008 , 93, 122509	3.4	27
1583	Suppression of martensitic phase transition at the Ni ₂ MnGa film surface. <i>Applied Physics Letters</i> , 2008 , 93, 022501	3.4	20
1582	Large anisotropy of spin polarization in Heusler alloy Ni ₂ MnGa induced by martensitic transformation. <i>Journal of Applied Physics</i> , 2008 , 103, 093704	2.5	2
1581	Acoustic-assisted magnetic-field-induced strain and stress output of NiMnGa single crystal. <i>Applied Physics Letters</i> , 2008 , 92, 032506	3.4	20
1580	The phase transitions, magnetocaloric effect, and magnetoresistance in Co doped NiMnSb ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2008 , 104, 053906	2.5	45

1579	Mössbauer study on martensite phase in Ni ₅₀ Mn _{36.5} Fe _{0.557} Sn ₁₃ metamagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2008 , 93, 042509	3.4	74
1578	Structures and magnetic properties of CoNiGa melt-spun ribbons. <i>Journal of Applied Physics</i> , 2008 , 103, 07B322	2.5	7
1577	Magnetic-field-induced martensitic transformation in MnNiGa:Co alloys. <i>Applied Physics Letters</i> , 2008 , 92, 032509	3.4	70
1576	Magnetoelastic domains and magnetic field-induced strains in ferromagnetic shape memory alloys by phase-field simulation. <i>Applied Physics Letters</i> , 2008 , 92, 172504	3.4	28
1575	High-throughput screening of shape memory alloy thin-film spreads using nanoindentation. <i>Journal of Applied Physics</i> , 2008 , 104, 073501	2.5	18
1574	Design and application of a mechanical load frame for in situ investigation of ferromagnetic shape memory alloys by magnetic force microscopy. <i>Review of Scientific Instruments</i> , 2008 , 79, 113701	1.7	3
1573	Mössbauer studies on structural ordering and magnetic properties of melt-spun NiFeGa ribbons. <i>Applied Physics Letters</i> , 2008 , 93, 202503	3.4	8
1572	Direct evidence of detwinning in polycrystalline NiMnGa ferromagnetic shape memory alloys during deformation. <i>Journal of Applied Physics</i> , 2008 , 104, 103519	2.5	8
1571	Role of magnetostatic interactions in micromagnetic structure of multiferroics. <i>Journal of Applied Physics</i> , 2008 , 103, 023905	2.5	19
1570	Stress induced martensite in epitaxial NiMnGa films deposited on MgO(001). <i>Applied Physics Letters</i> , 2008 , 92, 192515	3.4	38
1569	Thermodynamic, kinetic, and magnetic properties of a Ni ₅₄ Fe ₁₉ Ga ₂₇ magnetic shape-memory single crystal. <i>Physical Review B</i> , 2008 , 77,	3.3	32
1568	Microstructure and twinning in epitaxial NiMnGa films. <i>Physical Review B</i> , 2008 , 78,	3.3	30
1567	Modeling of Magnetic SMAs. 2008 , 325-393		3
1566	Chemical potential shift of Fe ₃ VxSi studied by hard x-ray photoemission. <i>Physical Review B</i> , 2008 , 78,	3.3	3
1565	Switchable NiMnGa Heusler nanocrystals. <i>Journal of Applied Physics</i> , 2008 , 104, 074307	2.5	10
1564	Alloy Phase Diagrams Study and Its Application for New Alloy Development. 2008 , 72, 545-556		7
1563	Diffusion Bonding of Co to TiAu High Temperature Shape Memory Alloy. 2008 , 49, 1998-2005		8
1562	Acoustic-assist effect on magnetic threshold field and twinning-yield stress of NiMnGa single crystals. <i>Journal of Applied Physics</i> , 2008 , 104, 033907	2.5	10

- 1561 Modeling and computational analysis of materials exhibiting intrinsic magnetomechanical coupling. **2008,**
- 1560 Magnetic properties of Ni-Mn-Fe-Ga ferromagnetic shape memory alloys. **2008, 27, 215-224** 2
- 1559 Temperature-dependent neutron diffraction study of phase separation at morphotropic phase boundary in $(1-x)\text{BiScO}_3-x\text{PbTiO}_3$. *Journal of Applied Physics*, **2009, 105, 114101** 2.5 28
- 1558 Microstructures and magnetic properties of rapidly solidified $\text{Ni}_{54}\text{Fe}_{27-x}\text{Ga}_{19+2x}$ ferromagnetic Heusler alloys. *Journal of Applied Physics*, **2009, 105, 07A943** 2.5 7
- 1557 Temperature and magnetic field induced strain in $\text{Ni}_{50}\text{Mn}_{34}\text{In}_{16}$ alloy. **2009, 42, 185005** 30
- 1556 Martensitic transformation and magnetic field-induced strain in FeMnGa shape memory alloy. *Applied Physics Letters*, **2009, 95, 082508** 3.4 91
- 1555 Entropy change and effect of magnetic field on martensitic transformation in a metamagnetic NiCoMnIn shape memory alloy. *Applied Physics Letters*, **2009, 94, 191901** 3.4 117
- 1554 Influence of annealing and phase decomposition on the magnetostructural transitions in $\text{Ni}_{50}\text{Mn}_{39}\text{Sn}_{11}$. *Journal of Applied Physics*, **2009, 105, 07A921** 2.5 30
- 1553 Anomalous Hall effect in quaternary Heusler-type $\text{Ni}_{50}\text{Mn}_{17}\text{Fe}_8\text{Ga}_{25}$ melt-spun ribbons. *Applied Physics Letters*, **2009, 95, 032503** 3.4 12
- 1552 Magnetic properties of quaternary Heusler alloys $\text{Ni}_2-x\text{Co}_x\text{MnGa}$. *Physical Review B*, **2009, 80,** 3.3 31
- 1551 Delocalization and hybridization enhance the magnetocaloric effect in Cu-doped Ni_2MnGa . *Physical Review B*, **2009, 79,** 3.3 58
- 1550 Magnetocaloric effect linked to the martensitic transformation in sputter-deposited NiMnGa thin films. *Applied Physics Letters*, **2009, 95, 141908** 3.4 54
- 1549 Large magnetic-field-induced strains in NiMnGa nonmodulated martensite. *Applied Physics Letters*, **2009, 95, 104103** 3.4 30
- 1548 Converse magnetoelectric effect in ferromagnetic shape memory alloy/piezoelectric laminate. *Applied Physics Letters*, **2009, 95, 022501** 3.4 41
- 1547 Search for transformation from paramagnetic martensite to ferromagnetic austenite: NiMnGaCu alloys. *Applied Physics Letters*, **2009, 95, 012501** 3.4 47
- 1546 Magnetic anomaly in $\text{Ni}_{51.5}\text{Fe}_{21.5}\text{Ga}_{27}$ single crystalline ferromagnetic shape memory alloy studied by ac impedance measurements. *Journal of Applied Physics*, **2009, 105, 073519** 2.5 11
- 1545 Anomalous magnetizations in melt spinning NiMnGa . *Journal of Applied Physics*, **2009, 106, 023923** 2.5 18
- 1544 Site Preference and Alloying Effect of Excess Ni in NiMnGa Shape Memory Alloys. **2009, 26, 047101** 7

1543	Conversion of magnetic structure by slight dopants in geometrically frustrated antiperovskite Mn ₃ GaN. <i>Applied Physics Letters</i> , 2009 , 95, 132508	3-4	35
1542	Frequency response of acoustic-assisted NiMnGa ferromagnetic-shape-memory-alloy actuator. <i>Journal of Applied Physics</i> , 2009 , 105, 093923	2-5	24
1541	NiMnCo single-crystalline particles for magnetic shape memory composites. <i>Applied Physics Letters</i> , 2009 , 95, 152503	3-4	24
1540	Variation of magnetoresistance in Ni _{2+x} Mn _{1-x} Ga with composition. <i>Journal of Applied Physics</i> , 2009 , 106, 103919	2-5	28
1539	Recent development of the magnetic shape memory materials research in Finland. 2009 , 1200, 26		
1538	Structural properties and magnetic interactions in martensitic Ni-Mn-Sb alloys. 2009 , 89, 2093-2109		39
1537	The effects of alloying elements Al and In on Ni-Mn-Ga shape memory alloys, from first principles. 2009 , 21, 045506		8
1536	INVESTIGATION ON MARTENSITIC TRANSFORMATION AND MECHANICAL PROPERTIES OF THE Ni ₅₀ Mn _{37-x} Sn ₁₃ Fe _x (x=0, 2, 5, 10) ALLOYS. 2009 , 23, 1803-1808		6
1535	TRANSFORMATION BEHAVIOR AND SHAPE MEMORY EFFECT OF A CoAl ALLOY. 2009 , 23, 1931-1936		10
1534	Fundamental Aspects of Magnetic Shape Memory Alloys: Insights from Ab Initio and Monte Carlo Studies. 2009 , 635, 3-12		37
1533	Magnetic studies of Fe-doped martensitic Ni ₂ Mn _{1.44} Sn _{0.56} -type Heusler alloy. 2009 , 42, 215006		26
1532	Magnetoelastic Coupling in Ni-Mn-Ga Magnetic Shape Memory Alloy. 2009 , 635, 125-130		6
1531	Ni-Mn-Ga films in the austenite and the martensite structures at room temperature: Uniaxial texturation and epitaxial growth. 2009 , 1200, 84		
1530	X-ray diffraction measurements in high magnetic fields and at high temperatures. 2009 , 10, 014612		8
1529	Successive phase transformation in ferromagnetic shape memory alloy Co ₃₇ Ni ₃₄ Al ₂₉ melt-spun ribbons. 2009 , 18, 3031-3034		9
1528	NiMn-Based Metamagnetic Shape Memory Alloys. 2009 , 635, 23-31		16
1527	Experiments and Modeling of the Magneto-Mechanical Response of Magnetic Shape Memory Alloys. 2009 ,		
1526	Magnetically Anisotropic Ni ₂ MnGa Thin Films: Coating Glass and Si Micro-Cantilevers Substrates. 2009 , 635, 161-166		4

1525	Effects of magnetic field on martensitic transformations. 2009 , 165, 012051		2
1524	Positron Annihilation Spectroscopy Study of NiMnGa Modulated and Non-Modulated Martensitic Phases. 2009 , 635, 55-61		3
1523	Magnetically induced martensite transition in freestanding epitaxial NiMnGa films. <i>Applied Physics Letters</i> , 2009 , 94, 152513	3-4	24
1522	Coupled magnetostructural transformations in melt-spun Ni ₅₅ Mn _{19.6} Ga _{25.4} ribbon: An electron spin resonance study. <i>Journal of Applied Physics</i> , 2009 , 105, 123904	2.5	2
1521	Magnetic anisotropy in Ni-Fe-Ga-Co ferromagnetic shape memory alloys in the single-variant state. 2009 , 21, 076001		14
1520	Compositional dependence of element-specific magnetic moments in Ni ₂ MnGa films. 2009 , 42, 084008		18
1519	Thermodynamic Modelling of Ferromagnetic Shape Memory Actuators. 2009 , 635, 175-180		7
1518	Observation of enhanced exchange bias behaviour in NiCoMnSb Heusler alloys. 2009 , 42, 115004		57
1517	Competing tetragonal and monoclinic phases in Ni _{2.2} Mn _{0.80} Ga. <i>Journal of Applied Physics</i> , 2009 , 106, 033510	2.5	12
1516	Pressure induced magnetic and magnetocaloric properties in NiCoMnSb Heusler alloy. <i>Journal of Applied Physics</i> , 2009 , 106, 053901	2.5	63
1515	Giant inverse magnetocaloric effect near room temperature in Co substituted NiMnSb Heusler alloys. 2009 , 42, 035009		92
1514	X-Ray Diffraction Reciprocal Space Mapping Study of Modulated Crystal Structures in 10M Ni-Mn-Ga Martensitic Phase. 2009 , 635, 63-68		3
1513	Influence of a magnetic field on microstructure formation in L10-type ferromagnetic intermetallics. 2009 , 165, 012055		1
1512	First-principles study of static displacements in Fe-Pd magnetic shape-memory alloys. 2009 , 1200, 57		1
1511	Deformation twinning in Ni-Mn-Ga micropillars with 10M martensite. <i>Journal of Applied Physics</i> , 2009 , 106, 53906	2.5	15
1510	New Functional Magnetic Shape Memory Alloys from First-Principles Calculations. 2009 , 1200, 38		2
1509	Structural and Magnetic Properties of Epitaxial Ni ₂ MnGa Thin Films. 2009 , 635, 155-160		11
1508	Anomaly in entropy change between parent and martensite phases in the Ni ₅₀ Mn ₃₄ In ₁₆ Heusler alloy. 2009 , 60, 25-28		85

1507	Equilibrium phase diagram of Ni ₂ MnGa under [001] compressive stress. 2009 , 60, 96-99	13
1506	Influence of magnetocrystalline anisotropy on martensitic transformation under magnetic field of single-crystalline Ni ₂ MnGa. 2009 , 60, 261-263	15
1505	Neutron diffraction study on stress-induced X-phase in Ni ₂ MnGa. 2009 , 60, 248-250	7
1504	Phase diagram of Fe-substituted Ni _{1-x} Mn _x shape memory alloys. 2009 , 61, 813-816	43
1503	Martensitic transformation behaviors and magnetic properties of Ni ₂ MnGa rapidly quenched ribbons. 2009 , 63, 965-968	16
1502	Acoustic Assisted Magnetic Field Induced Strain in 5M Ni-Mn-Ga Polycrystals. 2009 , 45, 1919-1921	12
1501	Unusual Lattice-Magnetism Connections in MnBi Nanorods. 2009 , 19, 1100-1105	11
1500	Magnetic Field-Induced Phase Transformation in NiMnCoIn Magnetic Shape-Memory Alloys: A New Actuation Mechanism with Large Work Output. 2009 , 19, 983-998	320
1499	Stray-Field-Induced Actuation of Free-Standing Magnetic Shape-Memory Films. 2009 , 21, 3708-3711	60
1498	Photoemission study of the (100) surface of Ni ₂ MnGa and Mn ₂ NiGa ferromagnetic shape memory alloys. 2009 , 603, 1999-2004	22
1497	Mechanomagnetic spectroscopy of ferromagnetic shape memory alloys. 2009 , 521-522, 194-200	8
1496	Temperature dependence of magnetization in FePd thin films. 2009 , 162, 59-63	10
1495	Amorphous and nano crystalline phase formation in Ni ₂ MnGa ferromagnetic shape memory alloy synthesized by melt spinning. 2009 , 44, 2553-2559	9
1494	Analysis of Variant Orientation Before and After Compression in Polycrystalline Ni ₅₀ Mn ₂₉ Ga ₂₁ MSMA. 2009 , 18, 554-557	8
1493	Magnetic-Field Induced Strains in Ferromagnetic Shape Memory Alloy Ni ₅₅ Mn ₂₃ Ga ₂₂ Deposited by RF-Magnetron Sputtering. 2009 , 6, S822-S825	2
1492	Diffraction features due to ordered distribution of twin boundaries in orthorhombic Ni ₂ MnGa crystals. 2009 , 42, 211-216	16
1491	Giant magnetic-field-induced strains in polycrystalline Ni-Mn-Ga foams. 2009 , 8, 863-6	281
1490	Magnetic shape memory: Magnetoelastic sponges. 2009 , 8, 854-5	7

1489	The evolution of microstructure during twinning: Constitutive equations, finite-element simulations and experimental verification. 2009 , 25, 2141-2168	32
1488	Magnetomechanical damping in Ni ₅₅ Mn ₂₃ Ga ₂₂ poly and single crystals. 2009 , 521-522, 201-204	3
1487	Investigation on martensitic transformation behavior, microstructures and mechanical properties of Fe-doped Ni ₅₅ Mn ₂₃ Ga ₂₂ alloys. 2009 , 507, 174-178	29
1486	Microstructural, mechanical and magnetic properties of shape memory alloy Ni ₅₅ Mn ₂₃ Ga ₂₂ thin films deposited by radio-frequency magnetron sputtering. 2009 , 518, 399-412	24
1485	A two dimensional Heusler alloy model. 2009 , 149, 73-77	2
1484	Effect of lattice contraction on martensitic transformation and magnetocaloric effect in Ge doped Ni ₅₅ Mn ₂₃ Ga ₂₂ alloys. 2009 , 157, 40-43	51
1483	Composition, structure and magnetic properties of sputter deposited Ni ₅₅ Mn ₂₃ Ga ₂₂ ferromagnetic shape memory thin films. 2009 , 321, 630-634	20
1482	Martensitic transformation temperature hysteresis narrowing and magnetocaloric effect in ferromagnetic shape memory alloys Ni ₅₅ Mn ₂₃ Ga ₂₂ . 2009 , 321, 782-785	13
1481	Magnetic properties on shape memory alloys Ni ₂ Mn _{1+x} In _{1-x} . 2009 , 321, 773-776	77
1480	Giant strain associated with microstructure control by magnetic field in Fe _{0.2} Pd, CoO and Nd _{0.5} Sr _{0.5} MnO ₃ . 2009 , 321, 769-772	6
1479	Structure, magnetic and magnetostrictive properties of as-deposited Fe ₅₀ Ga ₅₀ thin films. 2009 , 321, 2877-2882	52
1478	A 1% magnetostrain in polycrystalline 5M Ni ₅₅ Mn ₂₃ Ga ₂₂ . 2009 , 57, 365-370	124
1477	Domain microstructure evolution in magnetic shape memory alloys: Phase-field model and simulation. 2009 , 57, 2488-2495	64
1476	In situ studies of the martensitic transformation in epitaxial Ni ₅₅ Mn ₂₃ Ga ₂₂ films. 2009 , 57, 2516-2526	56
1475	Martensitic transformation and microstructure of polycrystalline Ni ₅₅ Mn ₂₃ Ga ₂₂ and C-doped Ni ₅₅ Mn ₂₃ Ga ₂₂ Heusler alloys. 2009 , 25, 829-832	6
1474	Magnetic properties of NiMn-based Heusler alloys influenced by Fe atoms replacing Mn. <i>Journal of Applied Physics</i> , 2009 , 105, 033919	2.5 50
1473	Effects of twin boundary mobility on domain microstructure evolution in magnetic shape memory alloys: Phase field simulation. <i>Applied Physics Letters</i> , 2009 , 94, 062508	3-4 25
1472	Acoustic Attenuation in Ferromagnetic Shape Memory Alloy Polymer Composites. 2009 ,	

1471	Stress corrosion cracking of Ni ₂ MnGa magnetic shape memory alloy in water and moist atmosphere. 2009 , 51, 949-953		7
1470	Passivity of polycrystalline NiMnGa alloys for magnetic shape memory applications. 2009 , 51, 1163-1171		25
1469	Determination of the compositions of NiMnGa magnetic shape memory alloys using hybrid evolutionary algorithms. 2009 , 45, 189-193		4
1468	Microstructures of a sputtered Ni ₅₆ Mn ₂₇ Ga ₁₇ ferromagnetic shape memory alloy thin film. <i>Journal of Alloys and Compounds</i> , 2009 , 468, 200-202	5-7	3
1467	Effect of annealing and heating/cooling rate on the transformation temperatures of NiFeGa alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 470, 237-240	5-7	16
1466	Ni ₅₆ Mn _{25-x} Cu _x Ga ₁₉ (x=0, 1, 2, 4, 8) high-temperature shape-memory alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 471, 570-574	5-7	49
1465	Studies on ordering temperature and martensite stabilization in Ni ₅₅ Mn _{20-x} Ga _{25+x} alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 276-280	5-7	13
1464	Microstructure, phase transitions and mechanical properties of Ni ₅₀ Mn ₃₄ In _{16-x} Co _x alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 935-939	5-7	31
1463	Transformation temperatures in polycrystalline Ni _{56.5-x} Fe ₁₇ Ga _{26.5} Gex ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 628-631	5-7	8
1462	Mössbauer study on ferromagnetic shape memory alloys Ni ₂ Mn _{1-x} FexGa. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 243-245	5-7	5
1461	Grain growth in NiMnGa alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 420-424	5-7	2
1460	. 2009 , 45, 15-57		60
1459	Clustering in Heusler Alloys. 2009 , 21-35		5
1458	Metamagnetic behaviour under high magnetic fields in Ni ₅₀ Mn _{50-x} In _x (x= 14.0 and 15.6) shape memory alloys. 2009 , 42, 075003		35
1457	Stress-assisted large magnetic-field-induced strain in single-variant Co-Ni-Ga ferromagnetic shape memory alloy. 2009 , 21, 256002		12
1456	Theoretical prediction of shape memory behavior and ferrimagnetism in Mn ₂ NiIn. <i>Applied Physics Letters</i> , 2009 , 94, 161908	3-4	63
1455	Magnetocaloric effect and its relation to shape-memory properties in ferromagnetic Heusler alloys. 2009 , 21, 233201		699
1454	Simulating functional magnetic materials on supercomputers. 2009 , 21, 293201		30

1453	Magnetic-field-induced transformation in FeMnGa alloys. <i>Applied Physics Letters</i> , 2009 , 95, 222512	3.4	81
1452	Modeling the Coupled Strain and Magnetization Response of Magnetic Shape Memory Alloys under Magnetomechanical Loading. 2009 , 20, 143-170		74
1451	Magnetic correlations in martensitic Ni-Mn-based Heusler shape-memory alloys: Neutron polarization analysis. <i>Physical Review B</i> , 2009 , 79,	3.3	206
1450	Structural, Thermal and Magnetic Properties of Ga Excess Ni-Mn-Ga. 2009 , 635, 43-47		4
1449	Ferromagnetism in the Mn-based Heusler alloy Mn ₂ NiSb. <i>Journal of Applied Physics</i> , 2009 , 105, 103903	2.5	29
1448	Large magnetostrain in polycrystalline NiMnInCo. <i>Applied Physics Letters</i> , 2009 , 95, 232515	3.4	65
1447	Magnetic properties of Ni ₅₀ Mn _{34.8} In _{15.2} probed by Mössbauer spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	121
1446	Magnetocaloric effect in ferromagnetic Heusler shape-memory alloys. 2009 , 165, 012050		3
1445	A preliminary look at how geometry influences the magneto-mechanical behavior of magnetic shape memory alloys. 2009 ,		
1444	X-ray powder diffraction camera for high-field experiments. 2009 , 156, 012018		1
1443	Twinning Behaviour of Textured Polycrystalline Ni-Mn-Ga Alloy after Hot Extrusion. 2009 , 635, 195-199		9
1442	Magnetostriction in Antiperovskite Manganese Nitride Mn ₃ CuN. 2009 , 48, 105-110		
1441	Effect of magnetic field on solid-solid phase transformations in iron-based ferromagnetic alloys. 2009 , 156, 012012		1
1440	Rearrangement of crystallographic domains driven by magnetic field in ferromagnetic Ni ₂ MnGa and antiferromagnetic CoO. 2009 , 165, 012052		1
1439	Recent Developments in Ni-Mn-Ga Foam Research. 2009 , 635, 119-124		4
1438	Diffraction effects due to modulation of orthorhombic crystals by aperiodically arranged twin boundaries. 2010 , 226, 012016		
1437	Deformation twinning in polycrystalline NiMnGa alloys. 2010 , 240, 012024		2
1436	Observation of Reverse Transformation in Metamagnetic Shape Memory Alloy Ni ₄₀ Co ₁₀ Mn ₃₄ Al ₁₆ by High-Field X-Ray Diffraction Measurements. 2010 , 51, 1648-1650		10

1435	Shape Memory Response in Ni ₄₀ Co ₁₀ Mn ₃₃ Al ₁₇ Polycrystalline Alloy. 2010 , 51, 525-528	12
1434	A Solar Paradox Resolved. 2010 , 3,	13
1433	SHS-produced Ni-Mn-Al magnetic shape memory alloy. 2010 , 19, 110-113	3
1432	Burst character of thermoelastic shape memory deformation in ferromagnetic Ni-Fe-Ga-Co alloy. 2010 , 36, 914-917	18
1431	Adaptive modulations of martensites. 2010 , 104, 145702	194
1430	Martensitic transition, ferromagnetic transition, and their interplay in the shape memory alloys Ni ₂ Mn _{1-x} Cu _x Ga. <i>Physical Review B</i> , 2010 , 82,	3-3 59
1429	Investigation of the structural stability of Co ₂ NiGa shape memory alloys via ab initio methods. 2010 , 58, 5220-5231	21
1428	Internal stress dependent structural transition in ferromagnetic Ni ₅₀ Mn ₂₅ Ga nanoparticles prepared by ball milling. 2010 , 71, 1540-1544	18
1427	Micromechanical modeling of stress-strain behaviors with intermartensitic transformation in NiFeGa alloys. 2010 , 42, 429-434	4
1426	In-Situ High-Energy X-Ray Diffuse-Scattering Study of the Phase Transition of Ni ₂ MnGa Single Crystal under High Magnetic Field. 2010 , 41, 1269-1275	1
1425	Microstructure and martensitic transformation behavior of a constant-strain aged Ni ₅₀ Mn ₂₅ GaTi magnetic shape memory alloy. 2010 , 45, 5490-5494	4
1424	A single-phase wide-hysteresis shape memory alloy Ni ₅₀ Mn ₂₅ Ga ₁₇ Cu ₈ . 2010 , 62, 298-300	30
1423	Microstructure and texture in Ni ₅₀ Mn ₂₉ Ga ₂₁ deformed by high-pressure torsion. 2010 , 62, 650-653	26
1422	Thermal stability of dual-phase Ni ₅₈ Mn ₂₅ Ga ₁₇ high-temperature shape memory alloy. 2010 , 63, 35-38	24
1421	Heat-induced and isothermal martensitic transformations from kinetically arrested parent phase in NiCoMnIn metamagnetic shape memory alloy. 2010 , 63, 73-76	41
1420	Large magnetic-field-induced strain in Co ₅₀ Ni ₅₀ Al single-variant ferromagnetic shape memory alloy. 2010 , 63, 379-382	27
1419	Magnetically resettable 0.16% free strain in polycrystalline Ni ₅₀ Mn ₂₅ Ga plates. 2010 , 63, 383-386	47
1418	Texturation of Ni ₅₀ Co ₅₀ MnIn Ribbons by Melt Spinning. 2010 , 12, 1024-1028	10

1417	Experimental and theoretical investigations on the magnetic-field-induced variation of surface energy of Co ₃ O ₄ crystal faces. 2010 , 16, 12088-90	31
1416	A highly plastic Ni ₅₀ Mn ₂₅ Cu ₁₈ Ga ₇ high-temperature shape memory alloy. 2010 , 527, 1975-1978	20
1415	Deformation studies of . 2010 , 10, 105-110	12
1414	FEM simulation of a NiMnGa film bridge actuator. 2010 , 10, 154-161	5
1413	Large superplastic strain in non-modulated epitaxial NiMnGa films. 2010 , 10, 162-167	9
1412	Martensite structures and twinning in substrate-constrained epitaxial NiMnGa films deposited by a magnetron co-sputtering process. 2010 , 10, 168-173	5
1411	Magnetic properties of Heusler alloys: Theory and experiment. 2010 , 322, 102-107	32
1410	Grain size refinement and magnetostriction of ferromagnetic shape memory FePdRh alloys. 2010 , 322, 197-207	9
1409	Enhanced magnetoresistance through magnetic-field-induced phase transition in Ni ₂ MnGa co-doped with Co and Mn. 2010 , 322, 715-717	13
1408	Martensitic transformation and magnetocaloric properties of Sn doping MnNiGa alloys. 2010 , 322, 2488-2492	9
1407	Effect of Mn concentration on the phase transformation in NiMnGa single crystal. <i>Physica B: Condensed Matter</i> , 2010 , 405, 1770-1774	2.8 8
1406	Size dependence of martensite transformation temperature in nanostructured NiMnSn ferromagnetic shape memory alloy thin films. 2010 , 204, 3773-3782	34
1405	Constraint-dependent twin variant distribution in Ni ₂ MnGa single crystal, polycrystals and thin film: An EBSD study. 2010 , 58, 4629-4638	43
1404	Domain models for ferromagnetic shape-memory materials. 2010 , 58, 4378-4386	8
1403	New approach to twin interfaces of modulated martensite. 2010 , 43, 617-622	43
1402	Physical properties of single-crystalline magnetic intermetallic compounds. 2010 , 207, 2704-2713	2
1401	Amplitude Stress in Ni-Mn-Ga Polymer Composites Bonded with PZT Sensors and Actuators. 2010 , 121, 77-85	2
1400	Influence of grain refinement and induced crystal defects on the magnetic properties of Ni ₅₀ Mn ₃₆ Sn ₁₄ Heusler alloy. 2010 , 43, 345001	23

- 1399 Effect of the Addition of Gd on Ni₅₃Mn₂₂Co₆Ga₁₉ High-Temperature Shape Memory Alloy. **2010**, 654-656, 2095-2098
- 1398 Phase Equilibrium of the AuMn-Cu₂MnGa System. **2010**, 89-91, 574-579
- 1397 Compression Behavior and Texture Development of Polymer Matrix Composites Based on NiMnGa Ferromagnetic Shape Memory Alloy Particles. **2010**, 654-656, 2103-2106 3
- 1396 Effect of Temperature and Strain Rate on Microstructure of Dynamically Recrystallized Ni₄₅Co₅Mn_{36.7}In_{13.3} Alloy. **2010**, 654-656, 2188-2191 2
- 1395 Effect of Co on magnetic property and phase stability of Ni-Mn-Ga ferromagnetic shape memory alloys: A first-principles study. **2010**, 19, 107102 5
- 1394 Experimental Investigations of the High-Temperature Phase Relationship and Ordering Transition in Ni-Mn-Ga Ternary System. **2010**, 148-149, 1695-1700
- 1393 Magnetostructural Correlations in Nitrogen-Deficient Antiperovskite Mn₃CuN_{1-x}. **2010**, 79, 073706 29
- 1392 Study on Powder Metallurgical Preparation of NiCoMnIn Alloy Foam. **2010**, 654-656, 1331-1334 1
- 1391 Magnetic, electrical, and magnetothermal properties in Ni₄₀Co₁₀Mn₃₀Bb Heusler alloys. *Journal of Applied Physics*, **2010**, 107, 09A927 2.5 31
- 1390 Magnetoresistance of Ni₅₀Mn₃₇(Sn_{1-x}In_x)₁₃ Alloys. **2010**, 168-169, 204-207 1
- 1389 Martensite and Nanocrystalline Phase Formation in Rapidly Solidified Ni₂MnGa Alloy by Melt-Spinning. **2010**, 649, 35-40 3
- 1388 Temperature dependence of magnetic susceptibility in the vicinity of martensitic transformation in ferromagnetic shape memory alloys. **2010**, 22, 316004 5
- 1387 Crystallization and high temperature shape memory behavior of sputter-deposited NiMnCoIn thin films. *Applied Physics Letters*, **2010**, 96, 173102 3.4 17
- 1386 Multiple phase transitions found in a magnetic Heusler alloy and thermodynamics of their magnetic internal energy. *Physical Review B*, **2010**, 81, 3.3 9
- 1385 Volume magnetic domain mirroring in magnetic shape memory crystals. *Applied Physics Letters*, **2010**, 96, 022507 3.4 29
- 1384 Self-activated reversibility in the magnetically induced reorientation of martensitic variants in ferromagnetic Ni-Mn-Ga films. *Physical Review B*, **2010**, 81, 3.3 18
- 1383 Stress- and magnetic field-induced entropy changes in Fe-doped Ni₄₀Mn₃₀Ga shape-memory alloys. *Applied Physics Letters*, **2010**, 96, 071912 3.4 31
- 1382 Irreversibility of field-induced magnetostructural transition in NiCoMnSb shape memory alloy revealed by magnetization, transport and heat capacity studies. *Applied Physics Letters*, **2010**, 96, 112503^{3,4} 29

1381	NiMnGa ferromagnetic shape memory wires. <i>Journal of Applied Physics</i> , 2010 , 107, 123908	2.5	19
1380	Structural and magnetic properties of magnetron sputtered NiMnSn ferromagnetic shape memory alloy thin films. <i>Journal of Applied Physics</i> , 2010 , 107, 103907	2.5	29
1379	Structural transformations in Mn ₂ NiGa due to residual stress. <i>Applied Physics Letters</i> , 2010 , 96, 081904	3.4	45
1378	Elucidation of microstructures produced in Ni ₅₁ Fe ₂₂ Ga ₂₇ ferromagnetic shape memory alloy. <i>Journal of Applied Physics</i> , 2010 , 107, 043904	2.5	3
1377	Martensitic transformation and accompanying magnetic changes in NiFeGaCo alloys. <i>Journal of Applied Physics</i> , 2010 , 107, 113905	2.5	15
1376	Influence of quenching rate on the magnetic and martensitic properties of NiFeGa melt-spun ribbons. <i>Journal of Applied Physics</i> , 2010 , 108, 043910	2.5	10
1375	Strain-induced dimensionality crossover and associated pseudoelasticity in the premartensitic phase of Ni ₂ MnGa. <i>Applied Physics Letters</i> , 2010 , 97, 171905	3.4	9
1374	Ferromagnetic exchange interaction between Co and Mn in the Heusler alloy CuCoMnAl. <i>Journal of Applied Physics</i> , 2010 , 107, 013913	2.5	13
1373	Twin microstructure dependent mechanical response in NiMnGa single crystals. <i>Applied Physics Letters</i> , 2010 , 96, 131903	3.4	91
1372	An ultrahigh vacuum compatible sample holder for studying complex metal surfaces. <i>Review of Scientific Instruments</i> , 2010 , 81, 043907	1.7	24
1371	Transformation of twinned Ni _{52.0} Mn _{24.4} Ga _{23.6} martensite in a rotating magnetic field: Theory and experiment. <i>Physical Review B</i> , 2010 , 81,	3.3	13
1370	A kinetics model for martensite variants rearrangement in ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2010 , 108, 113921	2.5	9
1369	Magnetism of mixed quaternary Heusler alloys: (Ni,T) ₂ MnSn (T=Cu,Pd) as a case study. <i>Physical Review B</i> , 2010 , 82,	3.3	25
1368	Coupling of ferroelasticity and ferromagnetism in La _{1-x} Sr _x CoO ₃ twin crystals. <i>Physical Review B</i> , 2010 , 82,	3.3	6
1367	Temperature dependent spin momentum densities in Ni-Mn-In alloys. 2010 , 22, 446001		12
1366	Vacancy-tuned paramagnetic/ferromagnetic martensitic transformation in Mn-poor Mn _{1-x} CoGe alloys. 2010 , 91, 17003		139
1365	THE BEHAVIOR OF ELECTRODEPOSITED NANOCRYSTALLINE CoNi ALLOYS SUBJECTED TO MAGNETIC AND STRESS FIELDS. 2010 , 17, 129-134		1
1364	Magnetocaloric effect and magnetoresistance of NiFeGa alloys. 2010 , 43, 455002		19

1363	Shape Memory Effect in Fe-Pd Magnetic Shape Memory Alloy Thin Films. 2010 , 654-656, 2107-2110		
1362	dc- and ac-magnetic field-induced strain effects in ferromagnetic shape memory composites of NiMnGa single crystal and polyurethane polymer. <i>Journal of Applied Physics</i> , 2010 , 107, 09A942	2.5	8
1361	Magnetic anisotropy of nonmodulated NiMnGa martensite revisited. <i>Journal of Applied Physics</i> , 2010 , 107, 09A914	2.5	33
1360	First-principles investigation of huge magnetostriction in cubic L12 Fe3Pt. <i>Journal of Applied Physics</i> , 2010 , 107, 09A945	2.5	8
1359	Shape Memory Behavior of Ni-Mn-Ga Ferromagnetic Shape Memory Alloy. 2010 ,		
1358	Peculiarities of magnetoelastic coupling in NiFeGaCo ferromagnetic martensite. 2010 , 43, 175002		9
1357	The Challenges of Modeling Magnetic Shape Memory Alloys Under Complex Load Paths. 2010 ,		
1356	Magnetic and Magneto-Transport Properties of Nickel-Rich NiMnGa Heusler Alloys. 2010 , 49, 073002		1
1355	Large negative magnetoresistance in nickel-rich NiMnGa Heusler alloys. <i>Journal of Applied Physics</i> , 2010 , 107, 09B103	2.5	19
1354	Magnetostriction and magnetic structure in annealed recrystallization of strain-forged ferromagnetic shape memory FeBdBi alloys. <i>Journal of Applied Physics</i> , 2010 , 107, 09D312	2.5	2
1353	Phase coexistence induced by cooling across the first order transition in NiCoMnSb shape memory alloy. <i>Journal of Applied Physics</i> , 2010 , 108, 063915	2.5	13
1352	Phase Transitions, Magnetocaloric Effect and Magnetoresistance in NiCoMnSn Ferromagnetic Shape Memory Alloy. 2010 , 49, 010211		34
1351	Structure Stability and Magnetic Properties of Ni2XGa (X = Mn, Fe, Co) Ferromagnetic Shape Memory Alloys by DFT Approach. 2010 , 160, 69-74		4
1350	Magnetic field-induced strain and magnetoelectric effects in sandwich composite of ferromagnetic shape memory Ni-Mn-Ga crystal and piezoelectric PVDF polymer. 2010 , 57, 2147-53		8
1349	Lattice dynamics and structural stability of ordered Fe3Ni, Fe3Pd and Fe3Pt alloys using density functional theory. <i>Physical Review B</i> , 2010 , 81,	3.3	37
1348	Effect of Volume Fraction of NiMnGa Powders on Magnetic-Field-Induced Strain in NiMnGa/Polymer Composites. 2010 , 152-153, 387-390		1
1347	Probing the Size Effect of Co2FeGa-SiO2@C Nanocomposite Particles Prepared by a Chemical Approach. 2010 , 22, 6575-6582		20
1346	Hydrogen-induced cracking and hydrogen embrittlement of Ni2MnGa FSMAs. 2010 , 43, 055001		3

1345	Hysteresis effects in the magnetic-field-induced reverse martensitic transition in magnetic shape-memory alloys. <i>Journal of Applied Physics</i> , 2010 , 108, 043914	2.5	30
1344	Electronic structure and lattice dynamics of the magnetic shape-memory alloy Co ₂ NiGa. <i>Physical Review B</i> , 2010 , 82,	3.3	29
1343	Role of electronic structure in the martensitic phase transition of Ni ₂ Mn(1+x)Sn(1-x) studied by hard-X-ray photoelectron spectroscopy and Ab initio calculation. 2010 , 104, 176401		161
1342	Entropy change linked to the magnetic field induced martensitic transformation in a NiMnInCo shape memory alloy. <i>Journal of Applied Physics</i> , 2010 , 107, 053501	2.5	62
1341	Mechanical sensing based on ferromagnetic shape memory alloys. 2010 ,		1
1340	Effect of aging on martensitic transformation and microhardness of Ni ₅₃ Mn ₂₃ Co ₁₈ Ti ₅ ferromagnetic shape memory alloy. 2010 , 26, 812-816		1
1339	Martensitic transition near room temperature and the temperature- and magnetic-field-induced multifunctional properties of Ni ₄₉ CuMn ₃₄ In ₁₆ alloy. <i>Physical Review B</i> , 2010 , 82,	3.3	42
1338	Time effect of martensitic transformation in Ni ₄₃ Co ₇ Mn ₄₁ Sn ₉ . <i>Intermetallics</i> , 2010 , 18, 188-192	3.5	24
1337	Development and characterization of Fe ₇₀ Pd ₃₀ ferromagnetic shape memory splats. <i>Intermetallics</i> , 2010 , 18, 877-882	3.5	23
1336	Thermal and microstructural evolution under ageing of several high-temperature NiMnGa alloys. <i>Intermetallics</i> , 2010 , 18, 977-983	3.5	31
1335	Thermal and transport properties of Ni ₂ MnGa _{1-x} Al _x alloys. <i>Intermetallics</i> , 2010 , 18, 2090-2095	3.5	12
1334	A new ternary compound (Ni, Mn) ₂ Ga in NiMnGa system. <i>Intermetallics</i> , 2010 , 18, 2105-2108	3.5	5
1333	Fabrication and characterization of a NiMnGa uniaxially textured freestanding film deposited by DC magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 509-514	5.7	14
1332	Metastability of ferromagnetic NiMnSn Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 492, 681-684	5.7	38
1331	Isothermal martensitic transformation in polycrystalline Ni ₅₀ Mn ₂₉ Ga ₂₁ . <i>Journal of Alloys and Compounds</i> , 2010 , 494, 40-43	5.7	14
1330	Microstructure, transformation temperatures, hardness and magnetic properties of Co _{36.4+x} Ni _{33.3-x} Ga _{30.3} ferromagnetic SMA. <i>Journal of Alloys and Compounds</i> , 2010 , 499, 183-186	5.7	2
1329	Magneto-thermal and magneto-transport behavior around the martensitic transition in Ni _{50-x} CoxMn ₄₀ Sb ₁₀ (x = 9, 9.5) Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 499, 140-143	5.7	11
1328	Magnetic properties of Mn-rich Pd ₂ MnSn Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 29-33	5.7	13

1327	The orientation dependence of transformation strain of Ni ₂ MnGa polycrystalline alloy and its composite with epoxy resin. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 680-684	5-7	16
1326	Estimation of driving force for martensitic transformation in (Ni _{52.5} Mn _{23.5} Ga ₂₄) _{100-x} Co _x alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 331-334	5-7	5
1325	Effect of Ni-substitution on Ni ₂ MnGe Heusler alloys: Ab initio study. 2010 , 50, 15-19		5
1324	Rearrangement of crystallographic domains driven by magnetic field in antiferromagnetic CoO. 2010 , 90, 2125-2134		2
1323	Film lift-off from MgO: freestanding single crystalline Fe-Pd films suitable for magnetic shape memory actuation - and beyond. 2010 , 22, 4969-72		30
1322	Effect of aging on magnetic properties and phase transition of Ni ₅₃ Mn _{23.5} Ga ₂₃ Ti _{0.5} ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 389-392	5-7	4
1321	Studies on ferromagnetic shape memory Ni ₂ MnGa alloys with Fe and rare-earths additives. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 73-76	5-7	9
1320	Metamagnetic transitions and magnetocaloric effect in epitaxial Ni _{1-x} Co _x MnIn films. <i>Applied Physics Letters</i> , 2010 , 97, 222507	3-4	66
1319	Effect of atomic order on the martensitic and magnetic transformations in Ni-Mn-Ga ferromagnetic shape memory alloys. 2010 , 22, 166001		46
1318	Annealing effect on phase transformation in nano structured Ni ₂ MnGa ferromagnetic shape memory alloy. 2010 , 83, 509-517		6
1317	Anisotropy of the electrical transport properties in a Ni ₂ MnGa single crystal: Experiment and theory. <i>Journal of Applied Physics</i> , 2010 , 107, 083713	2-5	4
1316	Phase diagram and composition optimization for magnetic shape memory effect in Ni _{1-x} Co _x MnSn alloys. <i>Applied Physics Letters</i> , 2010 , 97, 021908	3-4	69
1315	The structural and magnetic properties of Mn _{2-x} Fe _x NiGa Heusler alloys. <i>Journal of Applied Physics</i> , 2010 , 107, 013905	2-5	13
1314	Fe and Co selective substitution in Ni ₂ MnGa: Effect of magnetism on relative phase stability. 2010 , 90, 2771-2792		72
1313	Magnetic-field-induced recovery strain in polycrystalline Ni ₂ MnGa foam. <i>Journal of Applied Physics</i> , 2010 , 108, 123526	2-5	21
1312	Stress and temperature dependence of the structure of the martensite and X-phase in Ni ₂ MnGa. 2010 , 90, 1925-1935		5
1311	Magnetic and structural properties of the magnetic shape memory compound Ni ₂ (Mn _{1.48} Sb _{0.52}). 2010 , 22, 096002		19
1310	Effects of magnetostatic interaction on domain microstructure evolution in magnetic shape memory alloys: Phase field simulation. 2010 , 90, 169-176		7

1309	On system-oriented modeling and identification of magnetic shape memory (MSM) actuators. 2011 ,		6
1308	A Novel Concept for Strain Sensing Based on the Ferromagnetic Shape Memory Alloy NiMnGa. 2011 , 11, 2683-2689		26
1307	Observer-based inverse hysteresis control of prototypical magnetic shape memory (MSM) actuator. 2011 ,		4
1306	On the influence of thermal treatment on strain sensors based on the ferromagnetic shape memory alloy NiMnGa. 2011 ,		1
1305	Entropy Changes in Ferromagnetic Shape Memory Alloys. 2011 , 684, 49-60		18
1304	Composition-Dependent Basics of Smart Heusler Materials from First- Principles Calculations. 2011 , 684, 1-29		34
1303	Deformation Induced Phase Separation of Ni ₄₅ Co ₅ Mn _{36.7} In _{13.3} Alloy at High Temperature. 2011 , 702-703, 896-899		
1302	Reverse Magnetostructural Transitions by Co and In Doping NiMnGa Alloys: Structural, Magnetic, and Magnetoelastic Properties. 2011 , 684, 151-163		15
1301	Finite element analysis of the demagnetization effect and stress inhomogeneities in magnetic shape memory alloy samples. 2011 , 91, 4126-4157		43
1300	Caloric effects induced by magnetic and mechanical fields in a Ni ₅₀ Mn ₂₅ □Ga ₂₅ Co _x magnetic shape memory alloy. <i>Physical Review B</i> , 2011 , 83,	3-3	60
1299	Magnetic Anisotropy of Ferromagnetic Martensites. 2011 , 684, 31-47		13
1298	First-principles investigations of the electronic structure and properties related to shape-memory behavior in Mn ₂ NiX (X = Al,Ga,In,Sn) alloys. <i>Journal of Applied Physics</i> , 2011 , 110, 063523	2-5	39
1297	Structural and magnetic properties of Cr-doped NiMnIn metamagnetic shape memory alloys. 2011 , 44, 395001		20
1296	Exchange bias effect in alloys and compounds. 2011 , 23, 073201		216
1295	Structural-induced antiferromagnetism in Mn-based full Heusler alloys: The case of Ni ₂ MnAl. <i>Applied Physics Letters</i> , 2011 , 98, 102514	3-4	45
1294	Large magnetization change and magnetoresistance associated with martensitic transformation in Mn ₂ Ni _{1.36} Sn _{0.32} Co _{0.32} alloy. <i>Journal of Applied Physics</i> , 2011 , 110, 013916	2-5	14
1293	First principles approach to the magneto caloric effect: Application to Ni ₂ MnGa. <i>Journal of Applied Physics</i> , 2011 , 109, 07A942	2-5	10
1292	Domain model for the magnetic shape-memory effect in non-modulated tetragonal Ni-Mn-Ga. 2011 , 303, 012083		

1291	Magnetoelastic coupling in Iron investigated within an ab initio spin spiral approach. <i>Physical Review B</i> , 2011 , 84,	3-3	31
1290	Determination of the magnetic ground state in the martensite phase of Ni-Mn-Z (Z = In, Sn and Sb) off-stoichiometric Heusler alloys by nonlinear AC susceptibility. 2011 , 23, 326001		26
1289	Electronic, structural, and magnetic properties of the half-metallic ferromagnetic quaternary Heusler compounds CoFeMnZ (Z=Al, Ga, Si, Ge). <i>Physical Review B</i> , 2011 , 84,	3-3	182
1288	First-principles prediction of shape memory behavior and ferrimagnetism in Mn ₂ NiSn. 2011 , 23, 206003		21
1287	Influence of Long-Range Atomic Order on the Structural and Magnetic Properties of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. 2011 , 684, 85-103		11
1286	Designing shape-memory Heusler alloys from first-principles. <i>Applied Physics Letters</i> , 2011 , 99, 191904	3-4	80
1285	Exchange bias behaviour in magnetron sputtered Ni _{49.8} Mn _{36.1} Sn _{13.9} ferromagnetic shape memory alloy thin film. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2833-2837	5-7	26
1284	Martensitic transformation, mechanical property and magnetic-field-induced strain of NiMnGa alloy fabricated by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4081-4083	5-7	15
1283	Phase transition of NiMnGa alloy powders prepared by vibration ball milling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4563-4568	5-7	25
1282	Thermal cycling behaviors of the intermartensitic transformation in a polycrystalline Ni _{52.5} Mn _{23.7} Ga _{23.8} alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4868-4870	5-7	5
1281	Effect of electron density on the martensitic transition in NiMnSn alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6834-6837	5-7	36
1280	Magnetic and transport properties of Ni ₂ MnGaBaTiO ₃ metal-insulator particulate composite with percolation threshold. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6969-6972	5-7	5
1279	The influence of chemical disorder enhancement on the martensitic transformation of the Ni ₅₀ Mn ₃₆ Sn ₁₄ Heusler-type alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7826-7832	5-7	25
1278	Effect of hydrostatic pressure on martensitic transformation in a ferromagnetic shape memory alloy Ni ₂ MnGa. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7840-7843	5-7	7
1277	Effect of ageing on the structural and magnetic transformations and the related entropy change in a NiCoMnGa ferromagnetic shape memory alloy. <i>Intermetallics</i> , 2011 , 19, 721-725	3-5	19
1276	Martensitic transformation and magnetic properties in ferromagnetic shape memory alloy Ni ₄₃ Mn ₄₆ Sn ₁₁ Six. <i>Intermetallics</i> , 2011 , 19, 1605-1611	3-5	18
1275	Prediction of crystallographic characteristics of martensitic transformation in a NiMnGa based Heusler alloy. <i>Intermetallics</i> , 2011 , 19, 1630-1633	3-5	1
1274	Effects of rotation speed on microstructure and transition temperatures in NiBeAl melt-spun ribbons. <i>Intermetallics</i> , 2011 , 19, 1996-2001	3-5	4

1273	Phase evolution and properties of Ni ₅₀ Co ₂₃ Fe ₂ Ga ₂₅ Heusler alloy undercooled by electromagnetic levitation. <i>Intermetallics</i> , 2011 , 19, 1705-1710	3.5	10
1272	Effect of Co addition on martensitic phase transformation and magnetic properties of Mn ₅₀ Ni _{40-x} In ₁₀ Co _x polycrystalline alloys. <i>Intermetallics</i> , 2011 , 19, 1839-1848	3.5	31
1271	Ni ₅₆ Mn _{25-x} Cr _x Ga ₁₉ (x=0, 2, 4, 6) high temperature shape memory alloys. 2011 , 21, 96-101		30
1270	Phase stability of Heusler compound Co ₂ FeSi under pressure: An in-situ x-ray diffraction investigation. <i>Journal of Applied Physics</i> , 2011 , 110, 083523	2.5	9
1269	The field and temperature dependence of the magnetic and structural properties of the shape memory compound Ni(1.84)Mn(1.64)In(0.52). 2011 , 23, 456004		12
1268	Correlation between reentrant spin glass behavior and the magnetic order-disorder transition of the martensite phase in Ni-Co-Mn-Sb Heusler alloys. 2011 , 23, 416004		22
1267	Phase-field simulations of magnetic field-induced strain in Ni ₂ MnGa ferromagnetic shape memory alloy. 2011 , 91, 2102-2116		20
1266	Study of Co-containing Ni-Mn-Ga by positron annihilation. 2011 , 265, 012015		
1265	Ni-Mn-Ga single crystals with very low twinning stress. 2011 , 303, 012079		40
1264	Influence of grain size and training temperature on strain of polycrystalline Ni ₅₀ Mn ₂₉ Ga ₂₁ samples. 2011 , 303, 012080		3
1263	Investigation on mechanical properties of Y doped Ni ₅₀ Mn ₃₇ Sn ₁₃ shape memory alloys. 2011 ,		
1262	Magnetic moment distribution in non-stoichiometric Ni-Mn-Ga ferromagnetic shape memory alloys. 2011 , 325, 012016		6
1261	Twin interaction and large magnetoelasticity in Ni-Mn-Ga single crystals. <i>Journal of Applied Physics</i> , 2011 , 109, 063504	2.5	42
1260	Giant magnetostriction in antiperovskite Mn ₃ CuN. <i>Journal of Applied Physics</i> , 2011 , 109, 07A928	2.5	28
1259	Thermal Expansion and Magnetization Studies of Novel Ferromagnetic Shape Memory Alloys Ni ₅₂ Mn _{12.5} Fe _{12.5} Ga ₂₃ and Ni ₂ Mn _{0.75} Cu _{0.25} Ga. 2011 , 52, 1142-1147		10
1258	Laser beam interaction with Ni ₅₀ Mn ₃₇ Ga ferromagnetic shape memory alloys. 2011 , 49, 1289-1293		7
1257	Martensitic transformation and magnetic properties of ferromagnetic shape memory Fe ₆₆ Pd ₃₀ Rh ₄ alloys. 2011 , 323, 2792-2796		0
1256	The effect of magnetic stress and stiffness modulus on resonant characteristics of Ni ₅₀ Mn ₃₇ Ga ferromagnetic shape memory alloy actuators. 2011 , 323, 3109-3116		14

1255	Magnetocrystalline anisotropy in FeMnGa magnetic shape memory alloy. 2011 , 64, 669-672	18
1254	Influence of constraints and twinning stress on magnetic field-induced strain of magnetic shape-memory alloys. 2011 , 64, 888-891	23
1253	Effects of the antiferromagnetic anti-phase domain boundary on the magnetization processes in Ni ₂ Mn(Ga _{0.5} Al _{0.5}) Heusler alloy. 2011 , 65, 41-44	15
1252	In situ neutron diffraction study of twin reorientation and pseudoplastic strain in NiMnGa single crystals. 2011 , 65, 540-543	11
1251	Stable magnetic-field-induced strain above 1% in polycrystalline NiMnGa. 2011 , 65, 679-682	35
1250	Magnetic and structural properties of NiMnGa Heusler-type microwires. 2011 , 65, 703-706	66
1249	Suppression of ferromagnetism within antiphase boundaries in Ni ₅₀ Mn ₂₅ Al _{12.5} Ga _{12.5} alloy. 2011 , 65, 895-898	10
1248	Thermal expansion of Ni _{2.08} Mn _{0.96} Ga _{0.96} alloy. 2011 , 56, 423-426	4
1247	First-principles study of elastic and vibrational properties of Ni ₂ MnIn magnetic shape memory alloys. 2011 , 79, 509-514	12
1246	Microstructure of freestanding single-crystalline Ni ₂ MnGa thin films. 2011 , 59, 5067-5073	23
1245	Energetics of twinning in martensitic NiTi. 2011 , 59, 5893-5904	66
1244	First-principles investigations of the five-layer modulated martensitic structure in Ni ₂ Mn(Al _x Ga _{1-x}) alloys. 2011 , 59, 5938-5945	23
1243	Microstructural and crystallographic characteristics of interpenetrating and non-interpenetrating multiply twinned nanostructure in a NiMnGa ferromagnetic shape memory alloy. 2011 , 59, 7070-7081	43
1242	Highly mobile twinned interface in 10M modulated NiMnGa martensite: Analysis beyond the tetragonal approximation of lattice. 2011 , 59, 7450-7463	159
1241	Martensitic transition and structural modulations in Ni ₅₁ Fe ₂₄ Ga ₂₅ ferromagnetic shape-memory alloy. 2011 , 46, 2733-2740	7
1240	Phase transition and mechanical properties of constraint-aged NiMnGaTi magnetic shape memory alloy. 2011 , 46, 4562-4567	3
1239	The Magnetic Behavior and Physical Characterization of CuMnAl Ferromagnetic Shape Memory Alloy. 2011 , 24, 757-762	13
1238	Thickness dependent phase transformation of magnetron-sputtered NiMnSn ferromagnetic shape memory alloy thin films. 2011 , 13, 3975-3990	41

1237	Underlying mechanism of dual hysteresis in NiMnGa single crystals. 2011 , 528, 1877-1881	12
1236	Determination of the orientation relationship between austenite and incommensurate 7M modulated martensite in NiMnGa alloys. 2011 , 59, 2762-2772	53
1235	Anomalous effects of repeated martensitic transitions on the transport, magnetic and thermal properties in NiCoMnSb Heusler alloy. 2011 , 59, 3304-3312	20
1234	Twin relationships of 5M modulated martensite in NiMnGa alloy. 2011 , 59, 3390-3397	61
1233	Temperature dependent damping studies of Ni-Mn-Ga polymer composites. 2011 , 34, 739-743	1
1232	Effect of Co on the martensitic transformation, crystal structure and magnetization of Ni _{52.5} Mn _{23.5} Ga ₂₄ based ferromagnetic shape memory alloys. 2011 , 56, 796-802	5
1231	In-Situ Fracture Observation and Fracture Toughness Analysis of Ni-Mn-Ga-Fe Ferromagnetic Shape Memory Alloys. 2011 , 42, 3961-3968	3
1230	Correlation between solid-state transformations and solidification in Ni-Mn-Ga alloys. 2011 , 42, 3549-3553	2
1229	Flexible Bamboo-Structured NiCoMnIn Microfibers with Magnetic-Field-Induced Reverse Martensite Transformation. 2011 , 42, 3581-3584	2
1228	Determination of the orientation relationship between austenite and 5M modulated martensite in NiMnGa alloys. 2011 , 44, 1222-1226	10
1227	Size effects on magnetic actuation in Ni-Mn-Ga shape-memory alloys. 2011 , 23, 216-32	255
1226	Theoretical investigation of the effects of composition and atomic disordering on the properties of Ni ₂ Mn(Al _{1-x} Ga _x) alloy. 2011 , 59, 971-980	25
1225	Effect of pore architecture on magnetic-field-induced strain in polycrystalline NiMnGa. 2011 , 59, 2229-2239	34
1224	Phase-field simulation of magnetoelastic couplings in ferromagnetic shape memory alloys. 2011 , 59, 2648-2655	44
1223	Effects of surface damage on twinning stress and the stability of twin microstructures of magnetic shape memory alloys. 2011 , 59, 2948-2956	35
1222	Feasibility study for the investigation of Nitinol self-expanding stents by neutron techniques. <i>Physica B: Condensed Matter</i> , 2011 , 406, 527-532	2.8 3
1221	Structural and elastic properties of Ni _{2+x} Mn _{1-x} Ga alloys. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2240-2244	12
1220	Effect of Fe substitution on the phase stability and magnetic properties of Mn-rich NiMnGa ferromagnetic shape memory alloys. 2011 , 323, 574-578	5

1219	Magnetoresistance in ferromagnetic shape memory alloy NiMnFeGa. 2011 , 323, 2192-2195		6
1218	Sequence of structural and magnetic transitions in Ni ₄₈ Co ₂ Mn ₃₉ Sn ₁₁ shape memory alloy. 2011 , 323, 2519-2523		11
1217	The kinetic relation for twin wall motion in NiMnGa. 2011 , 59, 975-987		61
1216	Study of NiMnGaCu as single-phase wide-hysteresis shape memory alloys. 2011 , 528, 6907-6911		30
1215	The effect of internal and external stress on two-way shape-memory behaviour in Co ₄₉ Ni _{21.6} Ga _{29.4} single crystals. 2011 , 44, 045002		3
1214	Stress Wave Propagation in NiMnGa Ferromagnetic Shape Memory Alloys. 2011 , 50, 075801		
1213	Ab initio Phonons in Magnetic Ni ₂ MnAl. 2011 , 50, 05FE07		1
1212	Mechanical properties and twin boundary drag in FePd ferromagnetic shape memory foils: experiments and ab initio modeling. 2011 , 13, 063034		15
1211	Thermal expansion and magnetization studies of the novel ferromagnetic shape memory alloy Ni ₂ MnGa _{0.88} Cu _{0.12} in a magnetic field. <i>Physica Scripta</i> , 2011 , 84, 045603	2.6	6
1210	Magnetic field-induced reverse martensitic transformation in NiMnGaCu alloy. 2011 , 44, 285002		13
1209	Effects of film thickness and composition on the structure and martensitic transition of epitaxial off-stoichiometric NiMnGa magnetic shape memory films. 2011 , 13, 013042		22
1208	Microscopic origin of magnetic anisotropy in martensitic Ni ₂ MnGa. <i>Physical Review B</i> , 2011 , 83,	3.3	18
1207	EFFECT OF Mn SUBSTITUTION ON MARTENSITIC TRANSFORMATION TEMPERATURE IN NiMnGa SHAPE MEMORY ALLOY. 2011 , 25, 1577-1589		2
1206	Crystallographic, magnetic, and electronic structures of ferromagnetic shape memory alloys Ni ₂ XGa (X=Mn,Fe,Co) from first-principles calculations. <i>Journal of Applied Physics</i> , 2011 , 109, 014908	2.5	48
1205	Large internal stress-assisted twin-boundary motion in Ni ₂ MnGa ferromagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2011 , 99, 141907	3.4	5
1204	Competitive roles of elastic and magnetic interactions in twin boundary behaviors of magnetic shape memory alloys. <i>Applied Physics Letters</i> , 2011 , 99, 062507	3.4	4
1203	Existence of modulated structure and negative magnetoresistance in Ga excess Ni-Mn-Ga. <i>Applied Physics Letters</i> , 2011 , 99, 021902	3.4	23
1202	Effect of configurational order on the magnetic characteristics of Co-Ni-Ga ferromagnetic shape memory alloys. <i>Physical Review B</i> , 2011 , 84,	3.3	24

1201	Anisotropy induced large exchange bias behavior in ball milled NiCoMnSb alloys. <i>Applied Physics Letters</i> , 2011 , 98, 232502	3.4	23
1200	Metastability of magneto-structural transition revealed by sweep rate dependence of magnetization in Ni ₄₅ Co ₅ Mn ₃₈ Sb ₁₂ Heusler alloy. <i>Journal of Applied Physics</i> , 2011 , 109, 07A906	2.5	13
1199	Impact of local lattice distortions on the structural stability of Fe-Pd magnetic shape-memory alloys. <i>Physical Review B</i> , 2011 , 83,	3.3	30
1198	Magnetic domain structure in the orbital-spin-coupled system MnV ₂ O ₄ . <i>Physical Review B</i> , 2011 , 84,	3.3	6
1197	Effect of Annealing on Transformation Temperature and Magnetization in the NiMnGa Alloy. 2011 , 26, 223-229		9
1196	Magnetic state of Mn ₃ CuN explored by soft x ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2011 , 110, 023909	2.5	6
1195	Unusual magnetic anisotropy in the ferromagnetic shape-memory alloy Ni ₅₀ Fe ₂₃ Ga ₂₇ . <i>Applied Physics Letters</i> , 2011 , 99, 252504	3.4	5
1194	Temperature dependence of single twin boundary motion in NiMnGa martensite. <i>Applied Physics Letters</i> , 2011 , 98, 141902	3.4	54
1193	Effect of Fe substitution on the magnetic, transport, thermal and magnetocaloric properties in Ni ₅₀ Mn ₃₈ Fe _x Sb ₁₂ Heusler alloys. <i>Journal of Applied Physics</i> , 2011 , 109, 123904	2.5	39
1192	Effect of Si and Ga substitutions on the magnetocaloric properties of NiCoMnSb quaternary Heusler alloys. <i>Journal of Applied Physics</i> , 2011 , 109, 07A921	2.5	19
1191	Martensite Variant Reorientation of NiMnGa/Silicone Composites Containing Polystyrene Foam Particles. 2011 , 409, 645-650		2
1190	Effects of Annealing on Microstructure and Martensitic Transition of Ni-Mn-Co-In Ferromagnetic Shape Memory Alloys. 2011 , 674, 171-175		
1189	Magnetic Microstructure Analysis of Ferromagnetic Shape Memory Alloys and Related Compounds. 2011 , 684, 117-128		1
1188	Structural Transitions in a Co ₂ NiGa Ferromagnetic Shape Memory Alloy. 2011 , 172-174, 202-207		
1187	Stress-Temperature Phase Diagram of Ni ₂ MnGa and Structural Relations between its Constituent Phases. 2011 , 684, 61-71		
1186	Texture Evolution of HPT-Processed Ni ₅₀ Mn ₂₉ Ga ₂₁ . 2011 , 702-703, 169-172		1
1185	Martensitic Transformation and Mechanical Properties of Fe-Doped Ni ₅₄ Mn ₂₁ Ga ₂₅ Alloys. 2011 , 687, 500-504		
1184	Microstructural, phase transformation and magnetic properties of NiMnGa alloy fabricated by spark plasma sintering. 2011 , 20, 047503		4

1183	The effect of Si content on the martensitic transformation temperature of Ni _{55.5} Fe ₁₈ Ga _{26.5} xSi _x alloys. 2011 , 20, 046102	7
1182	Effect of Y Addition on Mechanical Properties of Ni ₅₀ Mn ₂₈ Ga ₂₂ Magnetic Shape Memory Alloy. 2011 , 299-300, 645-648	2
1181	Martensitic transformation in Cu-doped NiMnGa magnetic shape memory alloys. 2011 , 20, 028104	14
1180	Defect Structure and Martensitic Transformation Crystallography in Ni ₂ MnGa Alloy. 2011 , 687, 463-466	
1179	Review on the temperature memory effect in shape memory alloys. 2011 , 2, 101-119	21
1178	Martensitic and Magnetic Transformation Behaviors in Ni ₅₀ Mn _{34.5} In _{15.5} -xGdx Metamagnetic Shape Memory Alloys. 2011 , 480-481, 75-79	
1177	Magnetic-Field-Induced Effects in Martensitic Heusler-Based Magnetic Shape Memory Alloys. 2011 , 19, 231-289	82
1176	Two-dimensional analysis to improve the output stress in ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2011 , 110, 063905	2.5 23
1175	Magnetic Phase Diagram of the Ferromagnetic Shape Memory Alloys Ni ₂ MnGa _{1-x} Cu _x . 2011 , 684, 165-176	13
1174	Metamagnetic Shape Memory Effect and Magnetic Properties of Ni-Mn Based Heusler Alloys. 2011 , 684, 139-150	7
1173	STRUCTURAL AND MARTENSITIC TRANSFORMATION OF BULK, DISORDERED AND NANOCRYSTALLINE Ni ₂ MnGa ALLOYS. 2011 , 04, 415-418	8
1172	Magnetic moment and chemical order in off-stoichiometric Ni ₂ MnGa ferromagnetic shape memory alloys. 2011 , 13, 033039	67
1171	Magnetic and magnetoelastic properties of Ni-Mn-Ga [Do they need a revision?]. 2011 , 303, 012081	21
1170	Polycrystalline Ni-Mn-Ga as a Potential Material for Magnetically Driven Actuators. 2011 , 684, 129-137	1
1169	Modulated martensite: why it forms and why it deforms easily. 2011 , 13, 053029	103
1168	Magnetoresistance Studies on Ga Excess Ni-Mn-Ga Ferromagnetic Shape Memory Alloy. 2011 ,	
1167	Magnetic and Magnetoelectric Properties of Rare Earth Molybdates. 2012 , 2012, 1-22	7
1166	Positron annihilation study of the Fermi surface of Ni ₂ MnGa. 2012 , 14, 035020	37

1165	Adjusting Microstructure and Magnetic Properties of Ni-Mn-In Metamagnetic Shape Memory Alloys by Addition of Gd. 2012 , 535-537, 959-963		
1164	Ferromagnetic Shape Memory Heusler Alloys. 2012 , 189, 189-208		2
1163	Oscillation of the magnetic moment in modulated martensites in Ni ₂ MnGa studied by ab initio calculations. <i>Applied Physics Letters</i> , 2012 , 100, 084106	3-4	25
1162	Application of EBSD to the Crystallographic Investigation on Ni-Mn-Ga Alloys. 2012 , 706-709, 1879-1884		1
1161	Giant Field-Induced Distortion in Mn ₃ SbN at Room Temperature. 2012 , 51, 043001		3
1160	Structure and exchange bias of Ni ₅₀ Mn ₃₇ Sn ₁₃ ribbons. <i>Journal of Applied Physics</i> , 2012 , 111, 07A916	2.5	25
1159	Anomalous lattice softening of Ni ₂ MnGa austenite due to magnetoelastic coupling. <i>Journal of Applied Physics</i> , 2012 , 111, 07A929	2.5	18
1158	Theoretical study of Ni ₂ MnGa Heusler alloy. 2012 ,		
1157	Transformation behavior of Ni-Mn-Ga in the low-temperature limit. 2012 , 24, 276004		2
1156	Martensitic transformation and magnetic domains in Mn ₅₀ Ni ₄₀ Sn ₁₀ studied by in-situ transmission electron microscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 033904	2.5	18
1155	Giant magnetostriction in tetragonally distorted antiperovskite manganese nitrides. <i>Journal of Applied Physics</i> , 2012 , 111, 07A903	2.5	19
1154	Implications of twinning kinetics on the frequency response in NiMnGa actuators. <i>Applied Physics Letters</i> , 2012 , 100, 151901	3-4	48
1153	Magnetic-field-induced reverse martensitic transformation and large magnetoresistance in Ni ₅₀ CoxMn ₃₂ Al ₁₈ Heusler alloys. <i>Applied Physics Letters</i> , 2012 , 100, 172410	3-4	27
1152	Superfunctionalities in nanodispersive precipitation-hardened alloys. 2012 , 109, 115704		12
1151	Shape Memory Effect in Microsized Samples of Rapidly Quenched Ferromagnetic Alloy Ni-Mn-Ga. 2012 , 190, 295-298		10
1150	Temperature-induced martensite in magnetic shape memory Fe ₂ MnGa observed by photoemission electron microscopy. <i>Applied Physics Letters</i> , 2012 , 100, 032401	3-4	18
1149	Modulated structure in the martensite phase of Ni _{1.8} Pt _{0.2} MnGa: A neutron diffraction study. <i>Applied Physics Letters</i> , 2012 , 101, 171904	3-4	18
1148	The inverse magnetic shape memory effect in membranes for pressure sensor applications. 2012 ,		

1147	Implementation of numerical integration schemes for the simulation of magnetic SMA constitutive response. 2012 , 21, 094007		26
1146	Martensitic Transformation and Microstructure of Ni-Mn-Ga Magnetic Shape Memory Alloy. 2012 , 28, 72-78		7
1145	DISLOCATION MECHANISM OF TWINNING IN NiMnGa. 2012 , 05, 1250006		18
1144	A magnetic shape memory foil actuator loaded by a spring. 2012 , 21, 094013		24
1143	Design and Simulation of a Magnetic Shape Memory (MSM) Alloy Energy Harvester. 2012 , 78, 58-62		16
1142	Novel Research Fields Derived from the Study on Intermetallic Compounds [^] ^mdash;From Green Innovation to Life Innovation [^] ^mdash;. 2012 , 51, 168-178		
1141	Transmission Electron Microscopy of Twins in 10M Martensite in Ni–Mn–Ga Ferromagnetic Shape Memory Alloy. 2012 , 53, 902-906		19
1140	Study of the dynamical features of the austenite-martensite phase transition in the Ni ₅₀ (Mn, 1%Fe) ₃₄ In ₁₆ alloy using scanning Hall probe imaging. <i>Journal of Applied Physics</i> , 2012 , 111, 053908	2.5	12
1139	Design of a new FSMA-based actuator for nanopositioning applications. 2012 ,		
1138	Cyclic fibre texture in hot extruded Ni ₅₀ Mn ₂₉ Ga ₂₁ . <i>International Journal of Materials Research</i> , 2012 , 103, 575-579	0.5	18
1137	Polarized neutron diffraction at a spallation source for magnetic studies. 2012 , 45, 1024-1029		3
1136	Obtaining of Ni-Mn-Ga magnetic shape memory alloy by annealing electrochemically deposited Ga/Mn/Ni layers. 2012 , 522, 171-174		12
1135	Phase Diagrams of Conventional and Inverse Functional Magnetic Heusler Alloys: New Theoretical and Experimental Investigations. 2012 , 19-47		4
1134	Direct measurement of large reversible magnetic-field-induced strain in Ni ₅₀ Mn ₄₀ In ₁₀ metamagnetic shape memory alloys. 2012 , 60, 6883-6891		60
1133	Heat treatment induced martensitic accommodation and adaptive anisotropy in melt spun Ni ₅₅ Mn ₂₂ Ga ₂₃ (at. %) ribbons. <i>Journal of Applied Physics</i> , 2012 , 112, 103512	2.5	9
1132	Stress-induced martensite to austenite phase transformation in Ni ₂ MnGa magnetic shape memory alloys. 2012 , 21, 045011		7
1131	Freely movable ferromagnetic shape memory nanostructures for actuation. 2012 , 98, 536-539		10
1130	Modeling and Simulation of Large Microstructured Particles in Magnetic-Shape-Memory Composites. 2012 , 14, 582-588		3

1129	Unconventional phase field simulations of transforming materials with evolving microstructures. 2012 , 28, 915-927		23
1128	Martensitic transition of Mn-rich PdMnSn alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 392-395	5-7	5
1127	Dependence of the relative stability between austenite and martensite phases on the atomic order in a NiMnIn Metamagnetic Shape Memory Alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S308-S311	5-7	21
1126	Influence of chemical pressure in Sn-substituted Ni ₂ MnGa Heusler alloy: Experimental and theoretical studies. <i>Journal of Applied Physics</i> , 2012 , 112, 073921	2-5	11
1125	Kinetics, mechanism, and pathway of reorientation of multi-variants in Ni-Mn-Ga shape memory alloys under continuous compressive stress: Phase-field simulation. <i>Journal of Applied Physics</i> , 2012 , 112, 094908	2-5	12
1124	Magnetic shape memory effect in orbital-spin-coupled system MnV ₂ O ₄ . <i>Applied Physics Letters</i> , 2012 , 100, 051905	3-4	17
1123	First-principles investigations of crystallographic, magnetic, and electronic structures in Ni ₂ XIn (X = Mn, Fe, and Co). <i>Journal of Applied Physics</i> , 2012 , 112, 114901	2-5	17
1122	Mn ₂ PtIn: A tetragonal Heusler compound with exchange bias behavior. <i>Applied Physics Letters</i> , 2012 , 100, 152404	3-4	45
1121	Structural defects in FePd-based ferromagnetic shape memory alloys: tuning transformation properties by ion irradiation and severe plastic deformation. 2012 , 14, 103006		8
1120	A magnetic shape memory micropump: contact-free, and compatible with PCR and human DNA profiling. 2012 , 21, 115020		60
1119	Reverse magnetostructural transformation and adiabatic temperature change in Co- and In-substituted Ni-Mn-Ga alloys. <i>Physical Review B</i> , 2012 , 85,	3-3	44
1118	Microstructure and mechanical properties in Ni ₄₅ Mn ₃₉ In ₁₃ Gd ₂ alloy with high transformation temperature. 2012 , 28, 1332-1336		0
1117	Electronic structure of Fe ₂ CrSn. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3547-3550	2-8	2
1116	Ni ₂ MnGa(100) ferromagnetic shape memory alloy: A surface study. 2012 , 606, 130-136		11
1115	Reversible-strain criteria of ferromagnetic shape memory alloys under cyclic 3D magneto-mechanical loadings. <i>Journal of Applied Physics</i> , 2012 , 112, 033902	2-5	20
1114	Electronic and magnetic trends in martensitically transforming FePd alloys. 2012 , 324, 3524-3529		3
1113	Magnetic and transport properties of granular and Heusler-type glass-coated microwires. 2012 , 324, 3558-3562		26
1112	Reproducibility of martensitic transformation and phase constitution in NiCoAl. <i>Intermetallics</i> , 2012 , 20, 55-62	3-5	13

1111	Phase equilibria and composition dependence of martensitic transformation in NiMnGa ternary system. <i>Intermetallics</i> , 2012 , 25, 101-108	3-5	28
1110	Structure and magnetic properties of Ni ₂ (Mn,Co)Ga Heusler alloys rapidly solidified by melt-spinning. <i>Intermetallics</i> , 2012 , 25, 42-47	3-5	4
1109	Magnetic properties of new compounds RuMn ₂ Sn and RuMn ₂ Si. <i>Journal of Alloys and Compounds</i> , 2012 , 510, 1-5	5-7	50
1108	Ab initio lattice dynamics of Ni ₂ MnX (X=Sn, Sb) magnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 511, 9-13	5-7	16
1107	The suppression and recovery of martensitic transformation in a NiCoMnIn magnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 511, 41-44	5-7	9
1106	Grain size effect on martensitic transformation, mechanical and magnetic properties of NiMnGa alloy fabricated by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2012 , 514, 210-213	5-7	21
1105	Large converse magnetoelectric effect in ferromagnetic shape memory alloy Ni ₄₉ Fe ₁₈ Ga ₂₇ Co ₆ and Pb(Zr _{0.52} Ti _{0.48})O ₃ laminates. <i>Journal of Alloys and Compounds</i> , 2012 , 519, 97-100	5-7	5
1104	Effect of Dy addition on mechanical and magnetic properties of Mn-rich NiMnGa ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 520, 281-286	5-7	15
1103	Phase equilibria in the Mn-rich portion of MnGa binary system. <i>Journal of Alloys and Compounds</i> , 2012 , 537, 332-337	5-7	46
1102	Oriented single crystals of NiMnGa with very low switching field. 2012 , 359, 64-68		53
1101	Effect of Sn substitution and heat treatment on microstructure and microhardness of Co ₃₈ Ni ₃₄ Al ₂₈ Sn _x magnetic shape memory alloys. 2012 , 22, 2158-2163		1
1100	Enhancing magnetocrystalline anisotropy of the Fe ₇₀ Pd ₃₀ magnetic shape memory alloy by adding Cu. 2012 , 60, 6920-6930		13
1099	Positron Annihilation Spectroscopy Study of Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. 2012 , 35, 57-62		3
1098	NiMn Heusler Materials. 2012 , 49-65		0
1097	Development of NiMnGa/Polymer Composite Materials. 2012 , 706-709, 31-36		1
1096	Influences of composition and annealing on the martensitic transformation in Ni-Fe-Ga alloys. 2012 , 27, 1038-1041		
1095	Phase Transformation and Magnetic Property of Ni-Mn-Ga Powders Prepared by Dry Ball Milling. 2012 , 21, 2530-2534		14
1094	Martensitic and magnetic transformation in Mn ₅₀ Ni ₅₀ Sn _x ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2012 , 112, 083902	2-5	28

1093	Microstructure and martensitic transformation in the Fe-Mn-Al-Ni shape memory alloy with B2-type coherent fine particles. <i>Applied Physics Letters</i> , 2012 , 101, 231907	3-4	54
1092	Smart Structures. 2012 , 1		1
1091	Growth of sputter-deposited metamagnetic epitaxial Ni-Co-Mn-In films. <i>Journal of Applied Physics</i> , 2012 , 111, 093909	2-5	17
1090	Application of image processing to track twin boundary motion in magnetic shape memory alloys. 2012 ,		2
1089	Magnetic Interactions Governing the Inverse Magnetocaloric Effect in Martensitic NiMn-Based Shape-memory Alloys. 2012 , 67-77		1
1088	Magnetic Circuit for the Magnetic Actuator and Electrical Generator by Means of Magnetostriction Alloy. 2012 , 18, 38-43		
1087	Martensitic structure and magnetic domain transformation in melt-spun NiMnGa ferromagnetic ribbons. 2012 , 209, 1557-1561		6
1086	Large piezoresistance and magnetoresistance effects on Ni ₄₅ Co ₅ Mn _{37.5} In _{12.5} single crystal. <i>Applied Physics Letters</i> , 2012 , 100, 152405	3-4	34
1085	Structural modulations and magnetic properties of off-stoichiometric Ni-Mn-Ga magnetic shape memory alloys. <i>Physical Review B</i> , 2012 , 85,	3-3	25
1084	Variation of magnetic domain structure during martensite variants rearrangement in ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2012 , 101, 032401	3-4	1
1083	Enhancement of magnetocaloric properties near room temperature in Ga-doped Ni ₅₀ Mn _{34.5} In _{15.5} Heusler-type alloy. <i>Journal of Applied Physics</i> , 2012 , 111, 103902	2-5	11
1082	Stable magnetostructural coupling with tunable magneto-responsive effects in hexagonal ferromagnets. 2012 , 3, 873		313
1081	NiMn-Based Alloys and Composites for Magnetically Controlled Dampers and Actuators. 2012 , 14, 653-667		33
1080	Structure and Microscopic Magnetism of Epitaxial NiMnGa Films. 2012 , 14, 687-695		6
1079	Understanding the Magnetic Shape Memory System FePd by Thin Film Experiments and First Principle Calculations. 2012 , 14, 724-749		14
1078	The Role of Adaptive Martensite in Magnetic Shape Memory Alloys. 2012 , 14, 562-581		82
1077	Epitaxial NiMnGa Films for Magnetic Shape Memory Alloy Microactuators. 2012 , 14, 696-709		25
1076	Magnetic Domains and Twin Boundary Movement of NiMnGa Magnetic Shape Memory Crystals. 2012 , 14, 601-613		26

1075	Processing Routes Toward Textured Polycrystals in Ferromagnetic Shape Memory Alloys. 2012 , 14, 636-652		18
1074	Ab Initio-Based Prediction of Phase Diagrams: Application to Magnetic Shape Memory Alloys. 2012 , 14, 547-561		32
1073	Magnetic Interactions in Ni-Mn-Based Magnetic Shape-Memory Heusler Alloys. 2012 , 14, 523-529		22
1072	Domain Models of Ferromagnetic Shape Memory Materials. 2012 , 14, 589-593		1
1071	Why Magnetic Shape Memory Alloys?. 2012 , 14, 521-522		2
1070	Freestanding Single Crystalline FePd Ferromagnetic Shape Memory Membranes [Role of Mechanical and Magnetic Constraints Across the Martensite Transition. 2012 , 22, 2529-2534		18
1069	Electron Holography Studies on Narrow Magnetic Domain Walls Observed in a Heusler Alloy Ni ₅₀ Mn ₂₅ Al _{12.5} Ga _{12.5} . 2012 , 22, 3434-3437		11
1068	Ferroelastic Strain Induced Antiferroelectric-Ferroelectric Phase Transformation in Multilayer Thin Film Structures. 2012 , 22, 4159-4164		15
1067	Morphing soft magnetic composites. 2012 , 24, 4041-54		133
1066	Phase diagram of the ferromagnetic shape memory alloys Ni ₂ MnGa _{1-x} Cox. <i>Physical Review B</i> , 2012 , 85,	3-3	20
1065	Energetic and thermodynamic aspects of structural transitions in Fe-Pd ferromagnetic shape memory thin films: An ab initio study. <i>Physical Review B</i> , 2012 , 85,	3-3	13
1064	Magnetostriction in the vicinity of structural transitions in Ni ₂ MnGa. <i>Applied Physics Letters</i> , 2012 , 100, 262410	3-4	11
1063	Giant magnetostrictive materials. 2012 , 55, 1319-1326		30
1062	Basic Properties of Magnetic Shape-Memory Materials from First-Principles Calculations. 2012 , 43, 2891-2900		27
1061	High-Energy Synchrotron X-Ray Diffraction and Its Application to In Situ Structural Phase-Transition Studies in Complex Sample Environments. 2012 , 64, 140-149		27
1060	High-Energy Synchrotron X-Ray Diffraction for In Situ Study of Phase Transformation in Shape-Memory Alloys. 2012 , 64, 150-160		4
1059	Effect of Sm-doping on the morphology and magnetic properties of radio frequency magnetron sputtered Ni-Mn-Ga films. 2012 , 19, 555-560		1
1058	Phase transformation in Ni ₅₀ Mn ₅₀ ferromagnetic shape memory alloy thin films induced by dense ionization. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 925-934	2.6	12

1057	Role of magnetism on the martensitic transformation in NiMn-based magnetic shape memory alloys. 2012 , 60, 459-468		51
1056	Dependence of the martensitic transformation and magnetic transition on the atomic order in NiMnIn metamagnetic shape memory alloys. 2012 , 60, 1937-1945		73
1055	Entropy change linked to the martensitic transformation in metamagnetic shape memory alloys. 2012 , 60, 3168-3175		67
1054	Magnetic structure of the modulated martensite phase in NiMnGa ferromagnetic shape memory alloys. 2012 , 132, 104-108		
1053	Hydrostatic pressure effect on the structural phase transitions in NiMnGa alloy. 2012 , 67, 263-265		7
1052	Phase diagram and magnetocaloric effect in Mn ₂ Ni _{1.64} CoxSn _{0.36} alloys. 2012 , 66, 121-124		27
1051	Relaxation scenarios in FePd and FePdCu ferromagnetic shape memory splats: Short range order and microstructure. 2012 , 66, 163-166		13
1050	Phase transformations in sputtered NiMnGa magnetic shape memory alloy thin films. 2012 , 520, 3433-3439		19
1049	Magnetic properties of Mn-rich Rh ₂ Mn _{1+x} Sn _{1-x} Heusler alloys. <i>Physica B: Condensed Matter</i> , 2012 , 407, 311-315	2.8	4
1048	Magnetomechanical training of single crystalline NiMnGa alloy. 2012 , 324, 430-433		8
1047	Structural, magnetic, magnetocaloric and magnetotransport properties in Ge doped NiMnBb Heusler alloys. 2012 , 324, 1267-1271		31
1046	Effect of Sn doping on the martensitic and premartensitic transitions in Ni ₂ MnGa. 2012 , 324, 1891-1896		15
1045	A variational approach towards the modeling of magnetic field-induced strains in magnetic shape memory alloys. 2012 , 60, 1179-1200		43
1044	Reversible Magnetic Field Induced Strain in Ni ₂ MnGa-Polymer-Composites. 2012 , 14, 20-27		20
1043	First-principles investigation of magnetic property and defect formation energy in Ni-Mn-Ga ferromagnetic shape memory alloy. 2013 , 113, 847-851		9
1042	Advanced materials for solid-state refrigeration. 2013 , 1, 4925		269
1041	Self-generation method of studying the martensitic transition in Ni ₂ MnGa films. 2013 , 55, 564-570		
1040	Investigation of the influence of hydrostatic pressure on the magnetic and magnetocaloric properties of Ni ₂ Mn _{1+X} Ga (X = 0, 0.15) Heusler alloys. <i>Journal of Applied Physics</i> , 2013 , 114, 053906	2.5	14

1039	In-situ observation of stress-induced stochastic twin boundary motion in off stoichiometric NiMnGa single crystals. <i>Applied Physics Letters</i> , 2013 , 103, 021909	3-4	9
1038	A linear elastic Ni ₅₀ Mn ₂₅ Ga ₉ Cu ₁₆ martensitic alloy. 2013 , 32, 29-32		3
1037	Pressure effect on the phase transition temperatures of Ni ₂ Mn _{1-x} Cu _x Ga. 2013 , 62, 1879-1882		2
1036	Temperature dependent magnetostrains in polycrystalline magnetic shape memory Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S305-S308	5-7	24
1035	Differently mobile twin boundaries and magnetic shape memory effect in 10M martensite of NiMnGa. 2013 , 48, 5105-5109		18
1034	Grinding-induced martensite stabilization in Mn ₅₀ Ni _{33.5} Sn ₈ Co _{8.5} alloy. 2013 , 107, 239-242		4
1033	Metamagnetic phase transformation and magnetocaloric effect in quinary Ni ₄₅ Co ₅ Mn ₄₀ In _x Sn _{10-x} heusler alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 174-178	5-7	25
1032	Sputter deposition and characterization of Mn ₃ CuN thin films. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S314-S317	5-7	9
1031	Phase diagram, ferromagnetic martensitic transformation and magnetoresponse properties of Fe-doped MnCoGe alloys. 2013 , 332, 146-150		81
1030	Ferromagnetic shape memory effects in tetragonally distorted antiperovskite manganese nitrides. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S291-S295	5-7	11
1029	Magnetic field induced phase transformation in polycrystalline NiCoMnAl thin films. <i>Applied Physics Letters</i> , 2013 , 103, 132404	3-4	11
1028	Fabrication and magnetic properties of In ₂ O ₃ /NiMnGa core-shell nanowires. 2013 , 546, 219-225		3
1027	Magnetic shape memory effect at 1.7 K. <i>Applied Physics Letters</i> , 2013 , 103, 072405	3-4	39
1026	Texture and training of magnetic shape memory foam. 2013 , 61, 2113-2120		17
1025	Complex magnetic ordering as a driving mechanism of multifunctional properties of Heusler alloys from first principles. 2013 , 86, 1		67
1024	Thermoelastic strain in polycrystalline FePd shape memory alloy thin film. 2013 , 546, 196-199		5
1023	A nanoscale shape memory oxide. 2013 , 4, 2768		83
1022	Study on Starting Performance of Ni-Mn-Ga Magnetic Shape Memory Alloy Linear Actuator. 2013 , 49, 2225-2228		9

1021	Microstructure, martensitic transformation and shape memory effect of Ni ₃₈ Co ₁₂ Mn ₄₁ In ₉ alloy. 2013 , 108, 215-218		10
1020	Stress-induced transformations at low temperatures in a Ni ₄₅ Co ₅ Mn ₃₆ In ₁₄ metamagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2013 , 103, 242406	3-4	26
1019	Lattice instability of Ni-Mn-Ga ferromagnetic shape memory alloys probed by hard X-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 072403	3-4	10
1018	Site occupancy and magnetic moment of Fe in Ni ₂ Mn _{0.3} Fe _{0.7} Ga alloy by neutron powder diffraction study. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 506-511	5-7	6
1017	Effect of annealing on the magnetic, magnetocaloric and magnetoresistance properties of Ni-Co-Mn-Sb melt spun ribbons. 2013 , 347, 95-100		20
1016	Magnetic properties and phase diagram of Ni ₅₀ Mn _{50-x} Ga _x ferromagnetic shape memory alloys. 2013 , 61, 6712-6723		40
1015	Martensitic transformation in Heusler alloy Mn ₂ PtIn: Theoretical and experimental investigation. 2013 , 170, 44-47		17
1014	Giant field-induced strains in magnetoactive elastomer composites. 2013 , 469, 20130385		39
1013	Magnetic properties of Mn ₂ NiSn shape memory alloy. 2013 , 25, 236005		8
1012	. 2013 , 49, 4514-4517		2
1011	Magnetic interactions in the martensitic phase of Mn rich Ni-Mn-In shape memory alloys. <i>Journal of Applied Physics</i> , 2013 , 114, 173910	2-5	8
1010	A large magnetic-field-induced strain in Ni ₅₀ Be ₁₀ Mn ₂₀ Ga ₂₀ In ₁₀ ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S372-S375	5-7	10
1009	Structural and elastic properties of the magnetic shape memory Ni ₂ MnGa _{1-x} In _x alloy. 2013 , 63, 329-332		
1008	Finite element simulation of the magneto-mechanical response of a magnetic shape memory alloy sample. 2013 , 93, 2630-2653		16
1007	Compressive Fracture Behavior of Bi-added Ni ₅₀ Mn ₂₈ Ga ₂₂ Ferromagnetic Shape Memory Alloys. 2013 , 1516, 139-144		5
1006	Recent Progress and Future Perspectives in Magnetic and Metamagnetic Shape-Memory Heusler Alloys. 2013 , 738-739, 391-399		9
1005	Uniaxial pressure setup for piezoresistance and magnetoresistance measurements in Heusler materials. <i>Review of Scientific Instruments</i> , 2013 , 84, 013905	1-7	5
1004	Preparation of alumina-supported intermetallic compounds. 2013 , 3, 23269		15

1003	Microstructure and magnetic properties of melt spinning NiMnGa. <i>Intermetallics</i> , 2013 , 32, 151-155	3.5	26
1002	A model considering mechanical anisotropy of magnetic-field-induced superelastic strain in magnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 308-313	5.7	12
1001	Thermal strain and magnetization of the ferromagnetic shape memory alloy Ni ₅₂ Mn ₂₅ Ga ₂₃ in a magnetic field. 2013 , 74, 158-165		5
1000	Magnetic phase diagram of Heusler alloys Pd ₂ Mn _{1+x} Sn _{1-x} . <i>Journal of Alloys and Compounds</i> , 2013 , 554, 335-339	5.7	5
999	Ferromagnetic Heusler Alloy Thin Films: Electronic Properties and Magnetic Moment Formation. 2013 , 119-162		1
998	Different microstructures of mobile twin boundaries in 10 M modulated NiMnGa martensite. 2013 , 61, 622-631		71
997	Optimization of smart Heusler alloys from first principles. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S107-S112	5.7	35
996	Fe substitution induced intermartensitic transition and its internal stress dependent transforming behavior in NiMnGa based alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 812-815	5.7	4
995	TEM studies of domain formation mechanisms in MnV ₂ O ₄ . <i>Journal of Alloys and Compounds</i> , 2013 , 577, S731-S735	5.7	1
994	Magnetic field direction and temperature dependences of rearrangement of crystallographic domains in an antiferromagnetic CoO. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S309-S313	5.7	2
993	Phase diagram and magnetic moment of Ni ₅₀ +Mn ₂₇ Ga ₂₃ ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 521-528	5.7	9
992	Electronic structure and possible martensitic transformation in Mn ₂ NiGe and Ni ₂ MnGe. <i>Intermetallics</i> , 2013 , 38, 139-143	3.5	36
991	Compositional trends and magnetic excitations in binary and ternary FePd magnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S333-S337	5.7	8
990	The thermodynamic, electronic and magnetic properties of Ni ₂ MnX (X=Ge, Sn, Sb) Heusler alloys: a quasi-harmonic Debye model and first principles study. <i>Physica B: Condensed Matter</i> , 2013 , 409, 35-41	2.8	27
989	Magnetic entropy change involving martensitic transition in NiMn-based Heusler alloys. 2013 , 22, 037505		30
988	Magnetic entropy and magnetocaloric effect of ferromagnetic Heusler alloys Ni ₂ Mn _{0.75} Cu _{0.25} Ga and Ni ₂ MnGa _{0.88} Cu _{0.12} . <i>Journal of Alloys and Compounds</i> , 2013 , 577, S376-S379	5.7	1
987	In situ TEM study of deformation twinning in NiMnGa non-modulated martensite. 2013 , 61, 5290-5299		43
986	Nanoindentation response of substrate-attached and freestanding single-crystalline Fe ₇ Pd ₃ ferromagnetic shape memory thin films around the martensite transition: The impact of constraints and beyond. 2013 , 61, 6756-6764		13

985	Determination of magnetic flux density at the nanometer-scale antiphase boundary in Heusler alloy Ni ₅₀ Mn ₂₅ Al _{12.5} Ga _{12.5} . 2013 , 61, 2095-2101		24
984	Microstructure, martensitic transformation and anomalies in ϵ -softening in Co/Ni/Al ferromagnetic shape memory alloys. 2013 , 61, 5869-5876		20
983	The martensitic transition and magnetocaloric properties of Ni ₅₁ Mn _{49-x} Sn _x . <i>Physica B: Condensed Matter</i> , 2013 , 412, 74-78	2.8	15
982	Structure, magnetism, and magnetic compensation behavior of Co _{50-x} Mn ₂₅ Ga _{25+x} and Co _{50-x} Mn _{25+x} Ga ₂₅ Heusler alloys. <i>Journal of Applied Physics</i> , 2013 , 113, 103903	2.5	17
981	Internal friction associated with the premartensitic transformation and twin boundary motion of Ni _{50+x} Mn _{25-x} Ga ₂₅ (x = 0-20) alloys. <i>Journal of Applied Physics</i> , 2013 , 113, 103502	2.5	8
980	Magnetomechanical Four-State Memory. 2013 , 23, 3995-4001		22
979	Magnetic Properties and MCE in Heusler-Type Glass-Coated Microwires. 2013 , 26, 1415-1419		25
978	First order magneto-structural phase transition and associated multi-functional properties in magnetic solids. 2013 , 25, 183201		37
977	Magnetic properties and magnetocaloric effect in Heusler-type glass-coated NiMnGa microwires. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 73-79	5.7	64
976	Rearrangement of martensitic variants in Ni ₂ MnGa studied with the phase-field method. 2013 , 86, 1		12
975	Microstructure and magnetic properties of as-cast Ni ₂ MnGa alloys processed by twin roller melt spinning. 2013 , 335, 75-85		9
974	Analytical study on the stress-induced phase or variant transformation in slender shape memory alloy samples. 2013 , 48, 943-970		4
973	Shape memory effect in Mn-V-C austenitic steels involving deformation reorientation of ϵ -martensite. 2013 , 114, 322-326		4
972	Anomalous Schottky specific heat and structural distortion in ferromagnetic PrAl ₂ . 2013 , 110, 186405		26
971	Local Structure of Highly Spin Polarised Heusler Compounds Revealed by Nuclear Magnetic Resonance Spectroscopy. 2013 , 205-220		
970	Magnetic Heusler Compounds. 2013 , 1-75		17
969	Magnetocaloric effects in Ni-Mn-Ga-Fe alloys using Monte Carlo simulations. <i>Journal of Applied Physics</i> , 2013 , 113, 183904	2.5	17
968	Geometric factors on magnetically driven actuation behaviour for polycrystalline Ni ₂ MnGa and its composites. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S344-S347	5.7	4

967	Direct evidence of the magnetoelastic interaction in Ni ₂ MnGa magnetic shape memory system. <i>Applied Physics Letters</i> , 2013 , 102, 201906	3-4	9
966	Site preference and phase stability of Ti doping NiMnGa shape memory alloys from first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 297-300	5-7	9
965	Microstructure and mechanical properties of a Ni ₃₀ Cu ₂₀ Mn _{41.5} Ga _{8.5} dual-phase shape memory alloy. 2013 , 578, 256-259		8
964	Effect of high-temperature quenching on the magnetostructural transformations and the long-range atomic order of NiMnSn and NiMnSb metamagnetic shape memory alloys. 2013 , 61, 4676-4682		50
963	Phase transformation, thermoelastic and magnetic properties of Ni ₅₀ Mn ₃₀ Ga _{20-x} Cu _x ferromagnetic shape memory alloys. 2013 , 178, 857-862		4
962	Entropy change of martensitic transformation in ferromagnetic shape memory alloys. 2013 , 61, 1764-1772		19
961	Martensitic transformation in Pd doped FeRh exhibiting a metamagnetic transition. <i>Journal of Alloys and Compounds</i> , 2013 , 563, 192-196	5-7	7
960	A first-principles study of RuMn ₂ Si: Magnetic, electronic and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 292-296	5-7	25
959	The phase evolution, magnetic and exchange bias properties in Fe ₅₀ Mn _{24+x} Ga _{26-x} (x = 0B) melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 2013 , 570, 14-18	5-7	15
958	Characterization of Magnetoelastic Coupling in Ferromagnetic Shape Memory Alloys Using Neutron Diffraction. 2013 , 65, 54-64		4
957	Phase stability and magnetic properties of Ni _{50-x} Cu _x Mn ₃₁ Ga ₁₉ alloys. <i>Intermetallics</i> , 2013 , 34, 14-17	3-5	11
956	Epitaxial NiMnGa/MgO(1 0 0) thin films ranging in thickness from 10 to 100 nm. 2013 , 61, 263-272		41
955	Repulsive magneto-structural interaction in the ferromagnetic shape memory alloys Ni ₂ Mn _{1+x} In _{1-x} . 2013 , 327, 125-131		7
954	Twin boundary motion in NiMnGa single crystals under biaxial compression. 2013 , 90, 72-75		19
953	Influence of Ti additions on martensitic transformation and magnetic properties of cast Ni ₅₁ Fe _{22-x} Ga ₂₇ Ti _x shape memory alloys. 2013 , 19, 991-997		4
952	Interaction of Ferromagnetic Shape Memory Alloys and RGD Peptides for Mechanical Coupling to Cells: from Ab Initio Calculations to Cell Studies. 2013 , 23, 1383-1391		12
951	Transformation behaviors, structural and magnetic characteristics of NiMnGa films on MgO (001). 2013 , 22, 107502		3
950	Elastocaloric and magnetocaloric effects in Ni-Mn-Sn(Cu) shape-memory alloy. <i>Journal of Applied Physics</i> , 2013 , 113, 053506	2-5	90

949	The Phase Transformation and Magnetic Properties in Ni-Mn-In Alloys. 2013 , 712-715, 54-57		2
948	TEM study of pseudo-twin in an off-stoichiometric Ni ₂ MnGa. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S318-S322	5-7	
947	Combined effect of structural softening and magneto-elastic coupling on elastic coefficients of NiMnGa austenite. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S131-S135	5-7	24
946	Evolution of local strain bands of different orientation in single crystalline NiMnGa foils under tension. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S358-S361	5-7	12
945	Microstructural characterisation and properties of quaternary Ni ₅₀ Mn ₂₉ Ga ₂₀ Gd ₁ ferromagnetic shape memory alloy. 2013 , 29, 1095-1100		1
944	Magnetic field and atomic order effect on the martensitic transformation of a metamagnetic alloy. 2013 , 25, 484005		15
943	Magnetic domain pattern in hierarchically twinned epitaxial Ni-Mn-Ga films. 2013 , 25, 266002		16
942	A theory for structural phase transitions in BaTiO ₃ single crystal and PbZrO ₃ -xPbTiO ₃ solid solution. <i>AIP Advances</i> , 2013 , 3, 042118	1.5	10
941	(3 + 1)D superspace description of the incommensurate modulation in the premartensite phase of Ni ₂ MnGa: a high resolution synchrotron x-ray powder diffraction study. 2013 , 25, 212203		19
940	Peculiarities of magnetoelastic coupling in Ni _{51.5} Fe _{21.5} Ga ₂₇ single crystals. 2013 , 46, 375002		4
939	Analysis of Twin Boundary in Single Crystal of Ni-Mn-Ga Martensite Using Powder Laboratory Diffractometer. 2013 , 203-204, 13-16		
938	The Kinetics of Reorientation of Multi-Variants under the Continuous Tensile Stress: Phase-Field Simulation. 2013 , 749, 444-449		
937	Nature of the glassy magnetic state in the Cu 2.84 Mn 0.44 Al 0.72 shape memory alloy. 2013 , 104, 47014		2
936	Theoretical Study on Ni ₂ XIn (X=Mn, Fe and Co) Magnetic Shape Memory Alloys by Ab Initio Calculations. 2013 , 712-715, 288-292		1
935	The effect of antiphase boundaries on the elastic properties of Ni-Mn-Ga austenite and premartensite. 2013 , 25, 425402		20
934	Shape Memory Alloys and Their Applications in Power Generation and Refrigeration. 2013 , 1581, 1		1
933	Neutron Diffraction Study of a Non-Stoichiometric Ni-Mn-Ga MSM Alloy. 2013 , 738-739, 103-107		1
932	3D Energy Analysis of Magnetic-Field Induced Martensite Reorientation in Magnetic Shape Memory Alloys. 2013 , 738-739, 400-404		1

931	Magnetic circuit design for miniaturized magnetic shape memory alloy actuators. 2013,		1
930	Nanoscale magneto-structural coupling in as-deposited and freestanding single-crystalline FePd ferromagnetic shape memory alloy thin films. 2013, 14, 045003		7
929	An x-ray absorption spectroscopy study of Ni-Mn-Ga shape memory alloys. 2013, 25, 046001		7
928	Experimental Results and Model of Stress-Field-Induced Strain in NiMnGa Single Crystal. 2013, 275-277, 72-76		
927	Energy Dissipation of Martensite Reorientation in NiMnGa Single Crystals under Biaxial Compression. 2013, 738-739, 421-425		4
926	Phase stability, magnetism and generalized electron-filling rule of vanadium-based inverse Heusler compounds. 2013, 104, 27012		18
925	Cooling-induced shape memory effect and inverse temperature dependence of superelastic stress in Co ₂ Cr(Ga,Si) ferromagnetic Heusler alloys. <i>Applied Physics Letters</i> , 2013, 103, 164104	3-4	36
924	A First-Principles Study of Heusler Alloy Cr ₂ ZrGe. 2013, 710, 166-169		1
923	In situ atomic force microscope study of high-temperature unwinning surface relief in Mn-Fe-Cu antiferromagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2013, 102, 181901	3-4	8
922	Ab initio studies of effect of copper substitution on the electronic and magnetic properties of Ni ₂ MnGa and Mn ₂ NiGa. <i>Physical Review B</i> , 2013, 88,	3-3	41
921	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, 213905	2.5	61
920	Ferromagnetic shape memory flapper for remotely actuated propulsion systems. 2013, 22, 085030		21
919	MAGNETO-STRUCTURAL TRANSITIONS: MOLECULAR DYNAMICS SIMULATIONS OF A UNITED-ATOM, MESOSCOPIC MODEL. 2013, 27, 1350047		1
918	In-plane and out of plane magnetic properties in Ni ₄₆ Co ₄ Mn ₃₈ Sb ₁₂ ribbons. <i>Journal of Applied Physics</i> , 2013, 113, 17A940	2.5	9
917	MARTENSITIC TRANSFORMATION AND MAGNETIC PROPERTIES OF NiMnAl:Fe, Co FERROMAGNETIC SHAPE MEMORY ALLOYS. 2013, 06, 1350050		3
916	Thickness dependent exchange bias in martensitic epitaxial Ni-Mn-Sn thin films. <i>AIP Advances</i> , 2013, 3, 122112	1.5	17
915	Magnetic Moment Analysis on Non-Stoichiometric Ni-Mn-Ga Ferromagnetic Shape Memory Alloys. 2013, 287-291		1
914	Martensitic transformation in rapidly solidified Fe-Pd ribbons. 2013,		

- 913 Defects structure characterization of NiMnGa alloys by PALS. **2013**, 443, 012039
- 912 An Advanced Energy Relaxation Scheme for the Modeling of Displacive Phase Transformations. **2013**,
- 911 Magnetic Field-Induced Transition in Co-Doped Ni₄₁Co₉Mn_{31.5}Ga_{18.5} Heusler Alloy. **2013**, 54, 9-13 13
- 910 Magnetoelastic Anomalies Exhibited by Ni–Fe(Co)–Ga Polycrystalline Ferromagnetic Shape Memory Alloy. **2013**, 54, 1535-1538 5
- 909 Fabrication of Manganese Nitride Mn₃CuN Thin Films by Ultrahigh-Field Sputtering and Their Characterization. **2013**, 77, 80-84
- 908 Magnetoresistance and Transformation Hysteresis in the Ni₅₀Mn_{34.4}In_{15.6} Metamagnetic Shape Memory Alloy. **2013**, 54, 291-296 25
- 907 Magneto-Structural Properties of Ni₂MnGa Ferromagnetic Shape Memory Alloy in Magnetic Fields. *Metals*, **2013**, 3, 202-224 2.3 24
- 906 Magnetostrictives and Electrostrictives. 581-684
- 905 Magnetic Moment of Cu-Modified Ni₂MnGa Magnetic Shape Memory Alloys. *Metals*, **2013**, 3, 114-122 2.3 14
- 904 Mössbauer Spectroscopy Studies on Magnetic Properties for ⁵⁷Fe-substituted Ni-Mn-Sn Metamagnetic Shape Memory Alloys. *Metals*, **2013**, 3, 225-236 2.3 4
- 903 A Model to Describe the Magnetomechanical Behavior of Martensite in Magnetic Shape Memory Alloy. **2014**, 2014, 1-6 4
- 902 . **2014**, 3
- 901 Magnetocaloric Effect in Intermetallic Compounds and Alloys. **2014**, 22, 203-316 10
- 900 Superelasticity and Serration Behavior in Small-Sized NiMnGa Alloys. **2014**, 16, 955-960 28
- 899 Investigations on the electronic transport and piezoresistivity properties of Ni₂XMn_{1+X}Ga (X = 0 and 0.15) Heusler alloys under hydrostatic pressure. *Applied Physics Letters*, **2014**, 105, 252401 3.4 13
- 898 Evolution of magnetic domain structure of martensite in NiMnGa films under the interplay of the temperature and magnetic field. **2014**, 23, 068103 2
- 897 Monte Carlo and first-principles approaches for single crystal and polycrystalline Ni₂MnGa Heusler alloys. **2014**, 47, 425002 18
- 896 The realization of ferro-ferrimagnetic transition and half-metallicity in half-Heusler CoMnGa alloy. *Applied Physics Letters*, **2014**, 105, 212403 3.4 2

895	Large field-induced irreversibility in Ni-Mn based Heusler shape-memory alloys: A pulsed magnetic field study. <i>Physical Review B</i> , 2014 , 90,	3.3	27
894	Effect of niobium addition on the martensitic transformation and magnetocaloric effect in low hysteresis NiCoMnSn magnetic shape memory alloys. <i>Applied Physics Letters</i> , 2014 , 105, 231910	3.4	40
893	Defect characterization and magnetic properties in un-doped ZnO thin film annealed in a strong magnetic field. 2014 , 23, 127503		13
892	Magnetic Properties of the Ferromagnetic Shape Memory Alloys NiMnGa in Magnetic Fields. <i>Materials</i> , 2014 , 7, 3715-3734	3.5	2
891	First-principle investigations of the magnetic properties and possible martensitic transformation in Ni ₂ MnX (X=Al, Ga, In, Si, Ge and Sn). 2014 , 371, 135-138		11
890	Local elasticity and mobility of twin boundaries in martensitic films studied by atomic force acoustic microscopy. 2014 , 16, 013034		7
889	Electromagnetic sensors for assessing and monitoring civil infrastructures. 2014 , 238-264		8
888	Increasing the achievable state of order in Ni-based Heusler alloys via quenched-in vacancies. <i>Applied Physics Letters</i> , 2014 , 105, 261904	3.4	10
887	Magnetic behaviors in melt spun Fe ₅₂ Mn _{23+x} Ga ₂₅ (x = 0B) ribbons. <i>Journal of Applied Physics</i> , 2014 , 115, 17D709	2.5	
886	Magnetic properties of Ni-Mn-In-Co Heusler-type glass-coated microwires. <i>Journal of Applied Physics</i> , 2014 , 115, 17A939	2.5	15
885	Understanding Motion of Twin Boundary A Key to Magnetic Shape Memory Effect. 2014 , 50, 1-7		20
884	In-situ neutron diffraction study of martensitic variant redistribution in polycrystalline Ni-Mn-Ga alloy under cyclic thermo-mechanical treatment. <i>Applied Physics Letters</i> , 2014 , 105, 021907	3.4	8
883	Structural and dynamical fluctuations in off-stoichiometric NiMnGa shape-memory alloys. <i>Applied Physics Letters</i> , 2014 , 104, 241905	3.4	2
882	Localizing sources of acoustic emission during the martensitic transformation. <i>Physical Review B</i> , 2014 , 89,	3.3	32
881	Magnetic properties and magnetocaloric effect in Pt doped Ni-Mn-Ga. <i>Applied Physics Letters</i> , 2014 , 104, 231909	3.4	20
880	Control of Magnetic Shape Memory Actuators Using Observer-Based Inverse Hysteresis Approach. 2014 , 22, 1181-1189		23
879	Anti-site disorder and improved functionality of Mn ₂ NiX (X = Al, Ga, In, Sn) inverse Heusler alloys. <i>Journal of Applied Physics</i> , 2014 , 116, 133903	2.5	15
878	Tuning exchange bias by Co doping in Mn ₅₀ Ni ₄₁ Sn ₉ Cox melt-spun ribbons. <i>Journal of Applied Physics</i> , 2014 , 116, 103910	2.5	9

877	Magnetic and Electrical Properties of $\text{Mn}_{2-x}\text{Ni}_{1+x}\text{Sb}$. 2014 , 50, 1-4		2
876	A coupling of martensitic and metamagnetic transitions with collective magneto-volume and table-like magnetocaloric effects. <i>Applied Physics Letters</i> , 2014 , 105, 062401	3-4	19
875	Over 7% magnetic field-induced strain in a Ni-Mn-Ga five-layered martensite. <i>Applied Physics Letters</i> , 2014 , 105, 052405	3-4	68
874	Irreversibility of the martensitic transformation in Ni-Mn-In single crystal studied by resistivity under pressure and in situ optical observations. <i>Applied Physics Letters</i> , 2014 , 105, 151907	3-4	4
873	High strain in polycrystalline Ni _{48.8} Mn _{31.4} Ga _{19.8} Heusler alloys under overlapped static and oscillating magnetic fields. <i>Journal of Applied Physics</i> , 2014 , 116, 114507	2-5	2
872	Effect of Constant-Strain Aging on Microstructure, Martensitic Transformation and Magnetic Property of Ni ₅₃ Mn _{23.5} Ga _{23.5} Ferromagnetic Shape Memory Alloy. 2014 , 1015, 114-118		
871	Effect of Gb on Phase Transformation and Martensitic Phase Transformation in NiMnIn Alloys. 2014 , 1015, 177-180		
870	Phases Stability of Ni-Mn-Ga Alloys Studied by Ab Initio Calculations. 2014 , 783-786, 1646-1651		1
869	Anomalous magnetic configuration of Mn ₂ NiAl ribbon and the role of hybridization in the martensitic transformation of Mn ₅₀ Ni _{50-x} Al _x ribbons. <i>Applied Physics Letters</i> , 2014 , 105, 232404	3-4	9
868	Observation of Large Exchange Bias Effect in Bulk Mn ₅₀ Ni ₄₁ Sn ₉ Heusler Alloy. 2014 , 50, 1-4		1
867	Effect of Y Addition on Wear Property of Ni-Mn-Ga Shape Memory Alloys. 2014 , 513-517, 125-128		
866	Dislocation slip stress prediction in shape memory alloys. 2014 , 54, 247-266		42
865	Catalytic properties of Pt-based intermetallic compounds in dehydrogenation of cyclohexane and n-butane. 2014 , 469, 300-305		37
864	Magnetic phase diagram of ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 591, 280-285	5-7	13
863	The effect of melt-spinning processing parameters on crystal structure and magnetic properties in FeMnGa alloys. <i>Intermetallics</i> , 2014 , 49, 65-69	3-5	16
862	Microstructure and transformation behavior of Ni ₅₄ Mn ₂₅ Ga ₁₅ Al ₆ high-temperature shape memory alloy. 2014 , 24, 126-130		10
861	Intra-variant substructure in NiMnGa martensite: Conjugation boundaries. 2014 , 71, 255-263		23
860	Phase transition and mechanical properties of Ni ₃₀ Cu ₂₀ Mn _{37+x} Ga _{13-x} (x = 0-5) alloys. 2014 , 33, 547-551		7

859	Microstructure and martensitic transformation behavior of Ni ₅₆ Mn ₂₅ Fe _x Ga ₁₉ shape memory alloys. 2014 , 33, 41-46		6
858	The influence of Ge substitution on the magnetostucture transition and magnetocaloric effect of Mn _{1-x} Ni _x Sn _{1-x} Ge alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 369-373	5-7	17
857	Design and characterization of a multi-stable magnetic shape memory alloy hybrid actuator. 2014 , 20, 533-543		4
856	Effects of the interplay between atomic and magnetic order on the properties of metamagnetic Ni-Co-Mn-Ga shape memory alloys. <i>Journal of Applied Physics</i> , 2014 , 115, 113903	2.5	12
855	Theoretical study on the dislocation structure of parent-martensite interface in a magnetic shape memory alloy. 2014 , 49, 4648-4655		1
854	Relaxation effects in magnetic-field-induced martensitic transformation of an Ni ₄₀ Mn ₄₀ Co alloy. 2014 , 71, 117-125		10
853	Pulsed-mode operation and performance of a ferromagnetic shape memory alloy actuator. 2014 , 23, 025023		8
852	Magnetic properties of Ni _{40+x} Mn _{39-x} Sn ₂₁ (x=0, 2, 4, 6 and 8at.%) Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 594, 171-174	5-7	4
851	On the modeling of equilibrium twin interfaces in a single-crystalline magnetic shape memory alloy sample. I: theoretical formulation. 2014 , 26, 563-592		13
850	Barocaloric effect in metamagnetic shape memory alloys. 2014 , 251, 2114-2119		24
849	Modeling and characterization of the magnetocaloric effect in Ni ₂ MnGa materials. 2014 , 37, 289-296		5
848	Structural and Magnetic Properties of Melt-Spun Ni-Mn(Fe)-Ga Ferromagnetic Shape Memory Ribbons. 2014 , 50, 1-3		3
847	Estimation of entropy change at the first order martensitic transition in Ni ₄₀ Mn _x based ferromagnetic shape memory alloys. <i>Physica B: Condensed Matter</i> , 2014 , 448, 327-329	2.8	15
846	Dynamics of a driven magneto-martensitic ribbon. 2014 , 19, 3880-3891		3
845	A three-dimensional model of magneto-mechanical behaviors of martensite reorientation in ferromagnetic shape memory alloys. 2014 , 64, 249-286		42
844	The Microstructure and Mechanical Properties of Magnetic Shape Memory Alloys NiCo _{40+x} Al _{30-x} [X= 0, 3, 6, 10]. 2014 , 101-113		
843	Heusler nanoparticles for spintronics and ferromagnetic shape memory alloys. 2014 , 32, 020802		35
842	Inverse magnetocaloric effect in Mn ₂ NiGa and Mn _{1.75} Ni _{1.25} Ga magnetic shape memory alloys. <i>Applied Physics Letters</i> , 2014 , 104, 051905	3-4	19

841	Kinetics of Magnetoelastic Twin-Boundary Motion in Ferromagnetic Shape-Memory Alloys. 2014 , 112,		12
840	Effect of Co addition on the martensitic transformation and magnetocaloric effect of NiMnAl ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2014 , 47, 31-35	3-5	37
839	Magnetic phase diagram of Ni ₂ Mn _{1.44} Cu _x Sn _{0.56} shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 590, 221-226	5-7	4
838	A review of shape memory alloy research, applications and opportunities. 2014 , 56, 1078-1113		2000
837	Microstructure and Magnetic Properties of Ni ₂ (Mn,Fe)Ga Heusler Alloys Rapidly Solidified by Melt Spinning. 2014 , 45, 2161-2170		7
836	Half-metallicity in the Inverse Heusler compounds Sc ₂ MnZ (Z=Cr, Si, Ge, and Sn). <i>Intermetallics</i> , 2014 , 46, 243-249	3-5	45
835	Vacancy dynamic in Ni-Mn-Ga ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2014 , 104, 231905	3-4	10
834	Atomic and magnetic ordering in bcc CuAlMn: computational study. 2014 , 22, 085007		4
833	A study on the hydrogen activation properties of Ni-based intermetallics: a relationship between reactivity and the electronic state. 2014 , 16, 19828-31		22
832	A geometrical approach to determine reorientation start and continuation conditions in ferromagnetic shape memory alloys considering the effects of loading history. 2014 , 23, 125008		12
831	Magnetocaloric Properties of Melt-Spun FeNiMnGa Ribbons. 2014 , 50, 1-4		
830	Structural and magnetic properties probed using neutron diffraction technique in Ni ₅₀ CoxMn ₃₈ Sb ₁₂ (x=0 and 5) Heusler system. 2014 , 371, 94-99		9
829	Shape Memory Alloys and Their Applications in Power Generation and Refrigeration. 2014 , 289-307		
828	Effect of Zr addition on the microstructure, phase transformation and mechanical property of Ni ₅₀ Mn ₂₅ Ga ₁₇ Cu ₈ alloy. 2014 , 617, 46-51		7
827	Structural and magnetic dynamics in the magnetic shape-memory alloy Ni ₂ MnGa. <i>Physical Review B</i> , 2014 , 90,	3-3	17
826	High-resolution synchrotron x-ray powder diffraction study of the incommensurate modulation in the martensite phase of Ni ₂ MnGa: Evidence for nearly 7M modulation and phason broadening. <i>Physical Review B</i> , 2014 , 90,	3-3	33
825	Mesoscopic Phenomena in Multifunctional Materials. 2014 ,		2
824	Microstructure, phase transformation and mechanical property of NiMnGa particles/Mg composites. 2014 , 615, 273-277		15

823	Specific heat and entropy change during martensitic transformation in Ni ₅₀ Mn _{50-x} Ga _x ferromagnetic shape memory alloys. 2014 , 79, 159-167	8
822	Behaviors of Ferromagnetic Shape Memory Alloy Ni ₅₀ Mn _{50-x} Ga _x Under Incomplete Magneto-Mechanical Loading/Unloading Cycles. 2014 , 16, 1362-1369	6
821	Ab Initio Predicted Impact of Pt on Phase Stabilities in Ni-Mn-Ga Heusler Alloys. 2014 , 35, 695-700	11
820	Probing the Fermi surface by positron annihilation and Compton scattering. 2014 , 40, 328-338	22
819	Dynamics of twin boundaries in ferromagnetic shape memory alloys. 2014 , 30, 1545-1558	32
818	Ferromagnetic shape memory alloys: synthesis, characterisation and biocompatibility of Fe ₃ Pd for mechanical coupling to cells. 2014 , 30, 1579-1589	10
817	Magnetic shape memory effect and highly mobile twin boundaries. 2014 , 30, 1559-1578	60
816	Volume Change During Intermartensitic Transformations in Ni-Mn-Ga Alloy. 2014 , 23, 3180-3183	3
815	Thickness dependent exchange bias in co-sputter deposited Ni ₅₀ Mn _{50-x} Al Heusler alloy hard nanostructured thin films. 2014 , 572, 142-146	2
814	Rapid actuation and response of Ni ₅₀ Mn _{50-x} Ga _x to magnetic-field-induced stress. 2014 , 80, 373-379	34
813	Structural, physical and damping properties of melt-spun Ni ₅₀ Mn _{50-x} Ga _x wire-epoxy composites. 2014 , 63, 68-75	25
812	Large temperature and magnetic field induced strain in polycrystalline Ni ₅₀ Mn ₃₆ In _{14-x} Sbx alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 328-332	5-7 9
811	Thermal stability of Ni ₅₄ Mn ₂₅ Ga _{20.9} Gd _{0.1} high-temperature shape memory alloy with large reversible strain. 2014 , 123, 250-253	9
810	Magnetocrystalline anisotropy and magnetic field-induced strain of three martensites in Fe ₃ Pt ferromagnetic shape memory alloys. 2014 , 62, 182-187	15
809	Effects of Gd doping on Ni ₅₄ Mn ₂₅ Ga ₂₁ high-temperature shape memory alloy. 2014 , 597, 178-182	21
808	The incommensurate modulations of stoichiometric Ni ₂ MnGa. 2014 , 66, 192-198	25
807	Magnetic properties and possible martensitic transformation in Mn ₂ NiSi and Ni ₂ MnSi Heusler alloys. 2014 , 362, 42-46	12
806	Undercooling growth and magnetic characterization of ferromagnetic shape memory alloy Ni ₂ FeGa single crystals. 2014 , 388, 107-111	9

805	Electronic structure, magnetism and phase stability of isostructural Ga ₂ MnCoGa ₂ MnV Heusler alloys from first principles. 2014 , 89, 130-136		14
804	Martensitic transformation in NiMnGa/Si(100) thin films. 2014 , 558, 449-454		19
803	High-temperature magnetic shape memory actuation in a NiMnGa single crystal. 2014 , 83, 29-32		34
802	Crystal structural transformation accompanied by magnetic transition in MnCo _{1-x} Be _x Ge alloys. <i>Intermetallics</i> , 2014 , 52, 101-104	3-5	28
801	Hydrostatic pressure effects on martensitic transition, magnetic and magnetocaloric effect in Si doped NiMnSn Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 584, 175-179	5-7	22
800	Inapplicability of the Maxwell relation for the quantification of caloric effects in anisotropic ferroic materials. 2014 , 37, 281-288		20
799	Single phase boundary actuation of a ferromagnetic shape memory foil. 2014 , 64, 179-187		9
798	Controlling twin variant configuration in a constrained NiMnGa sample using local magnetic fields. 2014 , 77, 68-70		14
797	Two types of martensitic phase transformations in magnetic shape memory alloys by in-situ nanoindentation studies. 2014 , 26, 3893-8		27
796	Magnetoelastic coupling and the formation of adaptive martensite in magnetic shape memory alloys. 2014 , 251, 2067-2079		21
795	Hot deformation behavior of NiBeGa-based ferromagnetic shape memory alloy: A study using processing map. <i>Intermetallics</i> , 2014 , 54, 69-78	3-5	28
794	Mechanically induced demagnetization and remanent magnetization rotation in NiMnGa (B) magnetic shape memory alloy. 2014 , 87, 25-28		11
793	The effect of the substitution of Cu for Mn on magnetic and magnetocaloric properties of Ni ₅₀ Mn ₃₄ In ₁₆ . 2014 , 368, 191-197		21
792	Structural and Magnetic Properties of Magnetic Shape Memory Alloy Ni ₄₆ Mn ₄₁ In ₁₃ under Magnetic Fields. 2014 , 55, 477-481		11
791	Magnetic Shape Memory Microactuators. 2014 , 5, 1135-1160		46
790	Magnetic Field-Induced Reverse Martensitic Transformation and Thermal Transformation Arrest Phenomenon of Ni ₄₁ Co ₉ Mn ₃₉ Sb ₁₁ Alloy. <i>Metals</i> , 2014 , 4, 609-622	2-3	11
789	Ab Initio and Monte Carlo Approaches For the Magnetocaloric Effect in Co- and In-Doped Ni-Mn-Ga Heusler Alloys. 2014 , 16, 4992-5019		32
788	Ni _{2.36} Mn _{0.72} Ga _{0.92} nanowires with high martensite transition temperature. 2014 , 32, 041801		3

787	Structural and Electromagnetic Properties of Ni-Mn-Ga Thin Films Deposited on Si Substrates. 2014 , 75, 03006		
786	Magnetic moment distribution modeling in non stoichiometric Ni-Mn-Ga ferromagnetic shape memory alloys. 2014 , 549, 012016		2
785	Structural, Magnetic and Mechanical Properties of Oligocrystalline Ni-Mn-Ga Shape Memory Microwires. 2015 , 2, S577-S581		9
784	Magnetic and Martensitic Transformations in the Bulk and Melt Spun Ribbons of Ni _{57-x} Nd _x Fe ₁₈ Ga ₂₅ Ferromagnetic Shape Memory Alloys. 2015 , 2, S875-S878		1
783	Properties of NiMnGa Alloys Ultra Rapidly Solidified by Suction Casting. 2015 , 8, 577-585		1
782	Novel Achievements in the Research Field of Multifunctional Shape Memory Ni-Mn-In and Ni-Mn-In-Z Heusler Alloys. 2015 , 81-82, 38-76		12
781	Compositional trends in Ni-Mn-Ga Heusler alloys: first-principles approach. 2015 , 33, 05005		4
780	Suppression of martensitic transformation in Fe ₅₀ Mn ₂₃ Ga ₂₇ by local symmetry breaking. <i>Applied Physics Letters</i> , 2015 , 106, 211903	3-4	5
779	Strain-induced dimensionality crossover of precursor modulations in Ni ₂ MnGa. <i>Applied Physics Letters</i> , 2015 , 106, 021910	3-4	3
778	Exploring electrical conductivity anomalies across the martensite transition in Fe ₇ Pd ₃ ferromagnetic shape memory alloys: Experiments and ab-initio calculations. <i>Applied Physics Letters</i> , 2015 , 106, 091906	3-4	1
777	Chemical Synthesis and Characterization of FeCo ₂ NiGa Nanoparticles with a Very High Curie Temperature. 2015 , 27, 6994-7002		11
776	MAGNETOCALORIC RESPONSE OF NON-STOICHIOMETRIC NiMnGa ALLOYS AND THE INFLUENCE OF CRYSTALLOGRAPHIC TEXTURE. 2015 , 97, 245-256		18
775	Martensitic transformation and mechanical properties of Ni _{49+x} Mn _{36-x} In ₁₅ (x=0, 0.5, 1.0, 1.5 and 2.0) alloys. 2015 , 646, 57-65		11
774	Unoccupied electronic structure of Ni ₂ MnGa ferromagnetic shape memory alloy. 2015 , 222, 1-4		2
773	Realization of multifunctional shape-memory ferromagnets in all-d-metal Heusler phases. <i>Applied Physics Letters</i> , 2015 , 107, 022406	3-4	90
772	Standard enthalpies of formation of selected Rh ₂ YZ Heusler compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 925-930	5-7	6
771	Twin relationships between nanotwins inside A ₂ C type variant pair in NiMnGa alloy. 2015 , 84, 484-496		14
770	Investigations on the electronic, structural, magnetic properties related to shape-memory behavior in Ti ₂ CoX (X=Al, Ga, In). 2015 , 62, 212-216		9

- 769 Effect of aging and ball milling on the phase transformation of Ni₅₀Mn₂₅Ga₁₇Cu₈Zr_x alloys. *Intermetallics*, **2015**, 58, 56-61 3-5 4
- 768 A modified constitutive model with an enhanced phase diagram for ferromagnetic shape memory alloys. **2015**, 26, 56-68 12
- 767 Magnetostructural phase transition in off-stoichiometric NiMnIn Heusler alloy ribbons with low In content. **2015**, 383, 190-195 8
- 766 A phase-field model of phase transitions and domain structures of NiCoMnIn metamagnetic alloys. **2015**, 83, 333-340 23
- 765 Investigation of multifunctional properties of Mn₅₀Ni₄₀CoxSn₁₀ (x=0-1) Heusler alloys. *Journal of Alloys and Compounds*, **2015**, 620, 329-336 5-7 37
- 764 Microstructure and functional properties of two-phase NiMnFeIn shape memory alloys with small transformation hysteresis width. *Journal of Alloys and Compounds*, **2015**, 619, 498-504 5-7 7
- 763 Phase formation characteristics and magnetic properties of bulk Ni₂MnGe Heusler alloy. *Journal of Alloys and Compounds*, **2015**, 618, 115-119 5-7 10
- 762 Phase structure and magnetic properties of the annealed Mn-rich NiMnGa ferromagnetic shape memory thin films. **2015**, 61, 95-100 11
- 761 Giant Magnetostrictive Materials. **2016**, 4
- 760 Hysteresis Curve Fitting Optimization of Magnetic Controlled Shape Memory Alloy Actuator. **2016**, 5, 25 7
- 759 Tracking Control of a Magnetic Shape Memory Actuator Using an Inverse Preisach Model with Modified Fuzzy Sliding Mode Control. **2016**, 16, 8
- 758 Martensitic Transformation of NiMnGa Shape Memory Alloys Thin Films Studied by Flash DSC. **2016**, 775-785
- 757 Kinetic arrest and de-arrest in Mn₅₀Ni₃₆Sn₉Co₅ ferromagnetic shape memory alloy. **2016**, 253, 1923-1928 3
- 756 Realization of magnetostructural coupling by modifying structural transitions in MnNiSi-CoNiGe system with a wide Curie-temperature window. **2016**, 6, 23386 43
- 755 Magnetostructural coupling and magnetocaloric effect in Ni-Mn-Ga-Cu microwires. *Applied Physics Letters*, **2016**, 108, 052401 3-4 25
- 754 Ab-Initio Study of Electronic Structure of Martensitic Twin Boundary in Ni₂MnGa Alloy. **2016**, 57, 477-480 2
- 753 Magnetic and Structural Properties of Metamagnetic MnCo_{0.92}Fe_{0.08}Ge Compound. **2016**, 57, 316-320 6
- 752 Reducing the nucleation barrier in magnetocaloric Heusler alloys by nanoindentation. **2016**, 4, 064101 22

751	Large adiabatic temperature change in magnetoelastic transition in Ni ₅₀ Mn ₃₅ Cr ₂ Sn ₁₃ Heusler alloy of granular nanostructure. 2016 ,		
750	Origin of steps in magnetization loops of martensitic Ni-Mn-Ga films on MgO(001). <i>Applied Physics Letters</i> , 2016 , 109, 132405	3-4	4
749	Magnetic field and stress Induced strain in CoNiAl Ferromagnetic Shapememory Alloy. 2016 , 3, 3960-3965		3
748	A discrete twin-boundary approach for simulating the magneto-mechanical response of NiMnGa. 2016 , 25, 095020		13
747	Advanced Composites for Aerospace, Marine, and Land Applications. 2016 ,		1
746	Real-space phase field investigation of evolving magnetic domains and twin structures in a ferromagnetic shape memory alloy. <i>Journal of Applied Physics</i> , 2016 , 120, 183904	2.5	11
745	Mechanism for developing a kinesthetic haptic feedback system. 2016 ,		0
744	Effect of Cr addition on the structural, magnetic and mechanical properties of magnetron sputtered NiMnIn ferromagnetic shape memory alloy thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	2
743	Magnetic and structural properties of MnCo _{1-x} Fe _x Ge (0 ≤ x ≤ 0.12). 2016 ,		8
742	Magnetic proximity effect and shell-ferromagnetism in metastable Ni ₅₀ Mn ₄₅ Ga ₅ . <i>Journal of Applied Physics</i> , 2016 , 120, 243904	2.5	17
741	Surface and magnetic characteristics of Ni-Mn-Ga/Si (100) thin film. 2016 ,		1
740	Ab initio prediction of stable nanotwin double layers and 4O structure in Ni ₂ MnGa. <i>Physical Review B</i> , 2016 , 94,	3-3	21
739	Surface analysis of the Heusler Ni _{49.7} Mn _{29.1} Ga _{21.2} Alloy: The composition, phase transition, and twinned microstructure of martensite. <i>Journal of Applied Physics</i> , 2016 , 120, 113905	2.5	2
738	Giant magnetocaloric effect from reverse martensitic transformation in NiMnGaCu ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 670, 281-288	5-7	32
737	Variant organization and mechanical detwinning of modulated martensite in NiMnIn metamagnetic shape-memory alloys. 2016 , 111, 75-84		21
736	Fatigue life and fracture mechanics of unconstrained NiMnGa single crystals in a rotating magnetic field. 2016 , 654, 221-227		8
735	Pulsed magnetic field-induced single twin boundary motion in NiMnGa 5M martensite: A laser vibrometry characterization. 2016 , 113, 154-157		19
734	The structural, electronic and magnetic properties for the transition process between nonmagnetic and magnetic states in CoFe _{1+x} Ti _{1-x} Al. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 143-150	5-7	2

733	First-Principle Investigation of Structural, Electronic and Magnetic Properties in Mn ₂ RhZ (Z = Si, Ge, and Sn) Heusler Alloys. 2016 , 29, 1843-1850		63
732	Magnetic properties and atomic ordering of BCC Heusler alloy Fe ₂ MnGa ribbons. <i>Physica B: Condensed Matter</i> , 2016 , 489, 51-55	2.8	13
731	In Situ TEM Nanoindentation Studies on Stress-Induced Phase Transformations in Metallic Materials. 2016 , 68, 226-234		5
730	Confined martensitic phase transformation kinetics and lattice dynamics in Ni ₅₀ Be ₂ Ga shape memory alloys. 2016 , 110, 200-206		6
729	Large reversible magnetostrain in polycrystalline Ni ₅₀ Mn ₃₃ In ₁₇ Ga _x . <i>Journal of Alloys and Compounds</i> , 2016 , 681, 1-5	5.7	10
728	Martensitic transformation and mechanical properties of NiMnGaV high-temperature shape memory alloys. <i>Intermetallics</i> , 2016 , 73, 50-57	3.5	13
727	Effect of Isothermal Aging on the Physical Properties of Mn ₅₃ Ni ₂₃ Ga ₂₂ Ferromagnetic Shape Memory Alloy. 2016 , 25, 3566-3572		2
726	Phase-field simulations of partial pseudoelastic stress-strain behavior and microstructure evolution of Ni-Mn-Ga. 2016 , 669, 428-436		2
725	Large reversible magnetostrain of a Ni ₃₀ Cu ₈ Co ₁₂ Mn ₃₇ Ga ₁₃ single crystal. 2016 , 124, 142-145		10
724	A novel inertial energy harvester using magnetic shape memory alloy. 2016 , 25, 105024		4
723	The effect of the deposition rate on the crystallographic texture, microstructure evolution and magnetic properties in sputter deposited Ni-Mn-Ga thin films. 2016 , 616, 530-542		6
722	Structure and microstructure of Ni-Mn-Ga single crystal exhibiting magnetic shape memory effect analysed by high resolution X-ray diffraction. 2016 , 115, 250-258		16
721	Magnetoelastic properties in polycrystalline ferromagnetic shape memory Heusler alloys. 2016 , 2, 1530-1537		4
720	Energy-saving control strategies for a ferromagnetic shape memory alloy based actuator. 2016 , 249, 112-121		2
719	Kinetic-arrest-induced phase coexistence and metastability in (Mn,Fe) ₂ (P,Si). <i>Physical Review B</i> , 2016 , 94,	3.3	13
718	Introducing equiaxed grains and texture into Ni-Mn-Ga alloys by hot extrusion for superplasticity. 2016 , 112, 339-344		11
717	Temperature-dependent magnetostriction as the key factor for martensite reorientation in magnetic field. 2016 , 49, 355005		1
716	Structural, microstructural and magnetic investigations on the epitaxially grown Ni ₂ MnGa(010) films on MgO(100) substrate. <i>Intermetallics</i> , 2016 , 77, 6-13	3.5	4

715	Mechanical anomaly observed in Ni-Mn-Ga alloys by nanoindentation. 2016 , 118, 54-63		15
714	Electronic structure and magneto-optical Kerr effect spectra of ferromagnetic shape-memory Ni-Mn-Ga alloys: Experiment and density functional theory calculations. <i>Physical Review B</i> , 2016 , 94,	3-3	15
713	Ternary Diagrams of Ni-Mn-Ga from First Principles. 2016 , 845, 130-133		1
712	Multi-scale simulations of metamagnetic martensite transition in NiCoMnIn. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 507-511	5-7	4
711	Transformation of epitaxial NiMnGa/InGaAs nanomembranes grown on GaAs substrates into freestanding microtubes. 2016 , 6, 72568-72574		2
710	Magnetic Properties and Phase Diagram of Ni ₅₀ Mn _(50-x) Ga _(x/2) In _(x/2) Magnetic Shape Memory Alloys. 2016 , 2, 371-379		1
709	Effect of wheel speed and annealing temperature on microstructure and texture evolution of Ni 45 Mn 36.6 In 13.4 Co 5 ribbon. 2016 , 122, 170-176		2
708	Sintering kinetics of Ni ₂ FeSb powder alloys produced by mechanical milling. 2016 , 26, 2126-2135		2
707	Improved polycrystalline Ni ₅₄ Mn ₁₆ Fe ₉ Ga ₂₁ high-temperature shape memory alloy by ϕ phase distributing along grain boundaries. <i>International Journal of Materials Research</i> , 2016 , 107, 801-806	0-5	1
706	FCC Fe ₂ NiSi prepared by mechanical alloying and stabilization effect of L21B disorder on BCC Heusler structure. 2016 , 419, 485-489		8
705	Order-disorder transitions in the Fe ₂ VAl Heusler alloy. 2016 , 121, 126-136		28
704	Mechanocaloric effects in shape memory alloys. 2016 , 374,		24
703	Anomalous transport properties of Ni ₂ Mn _{1-x} Cr _x Ga Heusler alloys at the martensite-austenite phase transition. <i>Physical Review B</i> , 2016 , 93,	3-3	18
702	Effect of platinum substitution on the structural and magnetic properties of Ni ₂ MnGa ferromagnetic shape memory alloy. <i>Physical Review B</i> , 2016 , 93,	3-3	15
701	Probing the possibility of coexistence of martensite transition and half-metallicity in Ni and Co-based full-Heusler alloys: An ab initio calculation. <i>Physical Review B</i> , 2016 , 93,	3-3	20
700	Single-particle mechanism of magnetostriction in magnetoactive elastomers. 2016 , 93, 062503		9
699	Tunable structural and magnetic properties of chemically synthesized dual-phase Co ₂ NiGa nanoparticles. 2016 , 4, 7241-7252		3
698	Hysteresis modeling and position control of actuator with magnetic shape memory alloy. 2016 ,		3

697	Martensite transformations in Mn ₂ NiGa thin films grown on GaAs substrates. 2016 , 49, 465002	2
696	Energy-dispersive neutron imaging and diffraction of magnetically driven twins in a Ni ₂ MnGa single crystal magnetic shape memory alloy. 2016 , 746, 012056	5
695	Unique magnetostriction of FePd attributable to twinning. 2016 , 6, 34259	9
694	NiMnGa Single Crystal Exhibiting Multiple Magnetic Shape Memory Effects. 2016 , 2, 272-280	9
693	Crystalline structure and magnetic behavior of the Ni ₄₁ Mn ₃₉ In ₁₂ Co ₈ alloy demonstrating giant magnetocaloric effect. 2016 , 25, 085013	8
692	High-frequency performance of ferromagnetic shape memory alloys. 2016 , 8, 17-25	4
691	Stress-assisted removal of conjugation boundaries in non-modulated NiMnGa by coordinated secondary twinning. 2016 , 51, 457-466	21
690	Direct observation of fast-moving twin boundaries in magnetic shape memory alloy NiMnGa 5 M martensite. 2016 , 123, 9-12	17
689	Application of strain to orbital-spin-coupled system MnV ₂ O ₄ at cryogenic temperatures within a transmission electron microscope. 2016 , 65, 223-32	2
688	Effects of demagnetization on Magnetic-Field-Induced Strain and microstructural evolution in Ni-Mn-Ga Ferromagnetic Shape Memory Alloy by phase-field simulations. 2016 , 107, 361-370	10
687	Design, modelling and control of a micro-positioning actuator based on magnetic shape memory alloys. 2016 , 25, 075005	14
686	Crystal structure and crystallographic characteristics of martensite in Ni ₅₀ Mn ₃₈ Sb ₁₂ alloys. 2016 , 49, 513-519	4
685	Ferromagnetic Shape Memory Alloys—Challenges, Applications, and Experimental Characterization. 2016 , 40, 1005-1031	43
684	Single step electrosynthesis of NiMnGa alloys. 2016 , 204, 199-205	2
683	Structure of A-C Type Intervariant Interface in Nonmodulated Martensite in a Ni-Mn-Ga Alloy. 2016 , 8, 16985-96	5
682	Magnetocaloric and negative thermal expansion effects for Ni _{55.5} Mn _{19.5} Ga ₂₅ Heusler alloy with magneto-structural transition. 2016 , 180, 156-160	6
681	In-situ study of surface relief due to cubic-tetragonal martensitic transformation in Mn _{69.4} Fe _{26.0} Cu _{4.6} antiferromagnetic shape memory alloy. 2016 , 407, 1-7	5
680	Accurate evaluation of the configurational forces in single-crystalline NiMnGa alloys under mechanical loading conditions. 2016 , 105, 306-316	5

679	Quantification of charge-to-strain mediated interface coupling transfiguration in FE/FSMA multiferroic heterostructures. 2016 , 49, 035004	5
678	The Synthesis and Martensitic Transformation of the $\text{Co}_2\text{TiSb}_{1-x}\text{Sn}_x$ ($x = 0, 0.25, 0.5$) Heusler Alloys. 2016 , 29, 995-1000	1
677	Orientation relationship between austenite and non-modulated martensite in NiMnGa single crystals. 2016 , 103, 836-843	21
676	Magnetostriction of $\text{La}_{0.75}\text{Sm}_{0.25}\text{Mn}_2\text{Si}_2$ compound. <i>Journal of Alloys and Compounds</i> , 2016 , 676, 74-79	9
675	Magnetic structure and phase transition of $\text{Ni}_2\text{Mn}_{1.48}\text{Sb}_{0.52}$ magnetic shape memory compound. 2016 , 116, 31-35	5
674	HAXPES Applications to Advanced Materials. 2016 , 467-531	1
673	Hysteresis in magnetic shape memory composites: Modeling and simulation. 2016 , 89, 272-286	10
672	Influence of Fe doping and magnetic field on martensitic transition in NiMnSn melt-spun ribbons. 2016 , 107, 9-16	48
671	NiMn -based metamagnetic shape memory alloys. 2016 , 116, 1-6	40
670	Influence of the twin microstructure on the mechanical properties in magnetic shape memory alloys. 2016 , 108, 197-206	7
669	Electron spin resonance probed competing states in NiMnInSi Heusler alloy. 2016 , 407, 365-368	5
668	Powder X-ray diffraction and electron microscopy studies of polycrystalline Au_2PrIn . 2016 , 114, 313-316	4
667	Magnetocaloric Materials. 2016 , 115-186	2
666	Microstructural Evolution and Magnetic Properties of Aged CoNiGaAl Shape Memory Alloy. 2016 , 68, 1485-1491	
665	Magnetic Shape Memory Materials with Improved Functional Properties: Scientific Aspects. 2016 , 1-40	4
664	Synthesis and Three-Dimensional Magnetic Field Mapping of Co_2FeGa Heusler Nanowires at 5 nm Resolution. 2016 , 16, 114-20	31
663	A wide temperature window for the magnetostructural transformation in $\text{Mn}_{50}\text{Ni}_{50-x}\text{Sn}_x\text{Co}_y$ alloys. <i>Intermetallics</i> , 2016 , 70, 68-71	3-5 7
662	The relation between lattice parameters and very low twinning stress in $\text{Ni}_{50}\text{Mn}_{25+x}\text{Ga}_{25-x}$ magnetic shape memory alloys. 2016 , 25, 025001	23

661	Microstructure, martensitic transformation, mechanical and shape memory properties of NiCoMnIn high-temperature shape memory alloys under different heat treatments. 2016 , 655, 204-211		10
660	Coupled magnetostructural transition in Ni-Mn-V-Ga Heusler alloys and its effect on the magnetocaloric and transport properties. 2016 , 49, 065001		9
659	Microstructures and phase transformations in as-aged Mn 2.04 NiGa Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 443-449	5:7	5
658	Anti-site-induced diluted magnetism in semiconductive CoFeTiAl alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 519-525	5:7	8
657	Thermal and acoustic noises generated by austenite/martensite transformation in NiFeGaCo single crystals. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 29-35	5:7	14
656	Microstructural evolution of NiMnGa microwires during the melt-extraction process. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 244-251	5:7	24
655	Constitutive modeling of NiMnGa ferromagnetic shape memory alloys under biaxial compression. 2016 , 27, 1547-1564		5
654	Effect of heat treatment on the crystal structure, martensitic transformation and magnetic properties of Mn ₅₃ Ni ₂₅ Ga ₂₂ ferromagnetic shape memory alloy. 2016 , 399, 185-191		6
653	Microstructure, mechanical properties and shape memory effect of NiMnGaB high-temperature shape memory alloy. <i>Intermetallics</i> , 2016 , 68, 113-117	3:5	11
652	Stress-induced martensitic transformation, twin boundary mobility and elastic properties of vapor deposited Fe ₇₀ Pd ₃₀ ferromagnetic shape memory alloy thin films. 2016 , 111, 76-80		3
651	Shape memory effect and superelasticity of NiMnCoIn metamagnetic shape memory alloys under high magnetic field. 2016 , 111, 110-113		26
650	Effect of Mn substitution on structural and magnetic properties of ferromagnetic shape memory alloys. 2016 , 23, 631-635		8
649	On the modeling of equilibrium twin interfaces in a single-crystalline magnetic shape memory alloy sample. II: numerical algorithm. 2016 , 28, 669-698		9
648	Effect of annealing temperature on the microstructure and mechanical properties of Ni-Mn-Ga-Gd thin film. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1243-1247	5:7	6
647	Magnetic ground state and giant spontaneous exchange bias in Ni ₄₆ Mn ₄₃ In ₁₁ alloy. 2017 , 429, 110-116		12
646	Superconducting properties of Zr _{1+x} Ni _{2-x} Ga and Zr _{1-x} Ni _{2+x} Ga Heusler compounds. <i>AIP Advances</i> , 2017 , 7, 055706	1:5	4
645	Effect of precipitates on thermal and acoustic noises emitted during austenite/martensite transformation in NiFeGaCo single crystals. <i>Journal of Alloys and Compounds</i> , 2017 , 705, 840-848	5:7	9
644	Branched needle microstructure in Ni-Mn-Ga 10M martensite: EBSD study. 2017 , 128, 113-119		11

643	Giant isotropic magnetostriction in NaZn ₁₃ -type LaFe ₁₃ Al _x compounds. <i>Applied Physics Letters</i> , 2017 , 110, 011906	3.4	10
642	Simultaneous enhancement of magnetic and mechanical properties in Ni-Mn-Sn alloy by Fe doping. 2017 , 7, 43387		25
641	Geometry of adaptive martensite in Ni-Mn-based Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 703, 280-288	5.7	29
640	Ab initio study of effect of Co substitution on the magnetic properties of Ni and Pt-based Heusler alloys. 2017 , 381, 1449-1456		7
639	Catalytic impact of alloyed Al on the corrosion behavior of Co ₅₀ Ni ₂₃ Ga ₂₆ Al _{1.0} magnetic shape memory alloy and catalysis applications for efficient electrochemical H ₂ generation. 2017 , 7, 3635-3649		16
638	Direct observation of temperature-/magnetic-field-induced transition between martensite and premartensite and their relaxation in Ni ₅₀ Mn _{28.7} Al alloy. 2017 , 50, 135004		4
637	Influence of martensitic transformation on the magnetic transition in Ni-Mn-Ga. 2017 , 432, 266-270		8
636	Magnetic properties and martensitic transformation of Ni ₅₀ Mn _{28.7} He Heusler alloys from first-principles and Monte Carlo studies. 2017 , 50, 195001		8
635	Nucleation and growth of hierarchical martensite in epitaxial shape memory films. 2017 , 132, 327-334		28
634	A facile method for producing porous parts with complex geometries from ferromagnetic Ni-Mn-Ga shape memory alloys. 2017 , 200, 87-89		39
633	Technology and application of shape memory polymers in textiles. 2017 , 21, 86-100		9
632	¹¹⁹ Sn Mössbauer spectroscopy for assessing the local stress and defect state towards the tuning of Ni-Mn-Sn alloys. <i>Applied Physics Letters</i> , 2017 , 110, 181908	3.4	12
631	Room-temperature five-tesla coercivity of a rare-earth-free shell-ferromagnet. <i>Applied Physics Letters</i> , 2017 , 110, 192406	3.4	8
630	Effect of Heat Treatment on the Magnetic Properties of a CuMn Alloy. 2017 , 30, 197-201		3
629	Orthorhombic intermediate phase originating from {110} nanotwinning in Ni _{50.0} Mn _{28.7} Ga _{21.3} modulated martensite. 2017 , 132, 335-344		12
628	Orientation dependent compression behavior of Co ₃₅ Ni ₃₅ Al ₃₀ single crystals. <i>Journal of Alloys and Compounds</i> , 2017 , 718, 326-334	5.7	13
627	Investigation on electronic and magnetic properties of Mn ₂ NiAl by ab initio calculations and Monte Carlo simulations. 2017 , 428, 12-16		25
626	Investigation of Magnetic Properties of Phase Transformations in Copper-Based Alloys. 2017 , 30, 1257-1261		4

625	Reduction of material swelling and recovery of titanium alloys in diamond cutting by magnetic field assistance. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 525-531	5.7	25
624	Ni-Mn-Ga microwire twist caused by stress-magnetic coupling. 2017 , 130, 521-527		5
623	Site preference, electronic structure and possible martensitic transformation in Heusler alloys Ni ₂ CoZ (Z=Al, Ga, In, Si, Ge, Sn, Sb). <i>Intermetallics</i> , 2017 , 81, 1-8	3.5	16
622	Giant field-induced adiabatic temperature changes in In-based off-stoichiometric Heusler alloys. <i>Journal of Applied Physics</i> , 2017 , 121, 133901	2.5	17
621	Microstructural evolution and magnetic properties of binder jet additive manufactured Ni-Mn-Ga magnetic shape memory alloy foam. 2017 , 131, 482-490		67
620	Deformation physics of shape memory alloys [Fundamentals at atomistic frontier. 2017 , 88, 49-88		71
619	Energy harvesting from structural vibrations of magnetic shape memory alloys. <i>Applied Physics Letters</i> , 2017 , 110, 103905	3.4	11
618	Advances in Shape Memory Materials. 2017 ,		12
617	High temperature Ni ₄₅ Co ₅ Mn ₂₅ Fe _x Ga ₂₀ Cu ₅ ferromagnetic shape memory alloys. 2017 , 134, 119-122		12
616	Attenuation of dilatational wave in ferromagnetic shape memory alloy polyurethane polymer composites. 2017 , 51, 2727-2732		0
615	Microstructure of as-cast single and twin roller melt-spun Ni ₂ MnGa ribbons. 2017 , 124, 171-181		4
614	A three-dimensional constitutive model for magnetic shape memory alloys under magneto-mechanical loadings. 2017 , 26, 015014		5
613	Investigation of the martensitic microstructure and magnetostructural coupling in rapidly solidified Mn-Ni-Fe-Ge rod samples. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 1190-1194	5.7	1
612	Ab initio study of the composite phase diagram of NiMnGa shape memory alloys. 2017 , 125, 104-110		3
611	Basic Properties of Well-Known Intermetallics and Some New Complex Magnetic Intermetallics. 2017 , 345-403		1
610	Robust Bain distortion in the premartensite phase of a platinum-substituted NiMnGa magnetic shape memory alloy. 2017 , 8, 1006		13
609	Multistep superelasticity of Ni-Mn-Ga and Ni-Mn-Ga-Co-Cu microwires under stress-temperature coupling. 2017 , 140, 326-336		20
608	Large magnetostrain in magnetic-field-aligned Mn _{0.965} CoGe compound. <i>AIP Advances</i> , 2017 , 7, 056430	1.5	4

607	On the Driving Forces of Magnetically Induced Martensitic Transformation in Directionally Solidified Polycrystalline Ni-Mn-In Meta-Magnetic Shape Memory Alloy with Structural Anisotropy. 2017 , 48, 5480-5491		7
606	Low temperature annealing effects on martensitic transformation and exchange bias behavior of Ni ₄₀ Mn ₅₀ In free-standing alloy thin films. 2017 , 7, 42866-42874		4
605	Austenite avalanche evidenced by uniaxial stress in Ni-Mn-In Heusler single crystal. 2017 , 141, 83-91		1
604	Modeling of the magnetocaloric effect in Heusler Ni ₂ MnGa alloy: Ab initio calculations and Monte Carlo simulations. <i>Intermetallics</i> , 2017 , 91, 120-123	3-5	33
603	The Structural, Magnetic, and Magnetocaloric Properties of Ni ₄₃ Mn _{46-x} Cu _x In ₁₁ (x = 0, 0.9, 1.3, and 2.3) Heusler Alloys. 2017 , 48, 5068-5074		4
602	Magnetic shape memory effect in single crystalline Ni-Mn-Ga foil thinned down to 1 μ m. 2017 , 139, 152-154		10
601	Acoustic emissions associated with stress-induced twin boundary mobility in Fe ₇ Pd ₃ ferromagnetic shape memory alloys. 2017 , 139, 162-165		3
600	High damping capacity of Ni ₄₀ Mn ₅₀ Co ₁₀ microwires prepared by melt-extraction technique. 2017 , 1		1
599	Structural, transport, magnetic, magnetocaloric properties and critical analysis of Ni-Co-Mn-Ga Heusler alloys. 2017 , 442, 460-467		8
598	Magnetic anisotropy energy of ferromagnetic shape memory alloys Ni ₂ X(X=Fe, Co)Ga by first-principles calculations. <i>AIP Advances</i> , 2017 , 7, 075001	1-5	6
597	Effect of Fe substitution by Co on off-stoichiometric Ni ₄₀ Fe ₁₀ Co ₁₀ Mn ₅₀ In Heusler alloy ribbons. 2017 , 4, 086507		3
596	Ni ₇₄ Mn ₂₀ Ga ₆ alloys grown by molecular beam epitaxy on GaAs/AlAs/In _{0.2} Ga _{0.8} As (001). 2017 , 638, 298-304		1
595	Interplay of phase sequence and electronic structure in the modulated martensites of Mn ₂ NiGa from first-principles calculations. <i>Physical Review B</i> , 2017 , 96,	3-3	9
594	Exchange-bias reversal in Mn _{2-x} Ni _{1+x} Ga films with antisite disorder. <i>Intermetallics</i> , 2017 , 91, 22-30	3-5	2
593	Magnetocaloric, thermal, and magnetotransport properties of Ni ₅₀ Mn ₃₅ In _{13.9} B _{1.1} Heusler alloy. 2017 , 444, 98-101		11
592	Effect of Pt substitution on the magnetocrystalline anisotropy of Ni ₂ MnGa: A competition between chemistry and elasticity. <i>Physical Review B</i> , 2017 , 96,	3-3	15
591	Jahn-Teller crystals [new class of smart materials]. 2017 , 833, 012007		4
590	Effect of Fe and Co substitution on the martensitic stability and the elastic, electronic, and magnetic properties of Mn ₂ NiGa: Insights from ab initio calculations. <i>Physical Review B</i> , 2017 , 96,	3-3	9

589	Martensitic transformation and detwinning in directionally solidified two-phase Ni-Mn-Ga alloys under uniaxial compression. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 721-728	5.7	8
588	Shell-ferromagnetism in a Ni-Mn-In off-stoichiometric Heusler studied by ferromagnetic resonance. <i>AIP Advances</i> , 2017 , 7, 056425	1.5	4
587	Heusler 4.0: Tunable Materials. 2017 , 47, 247-270		79
586	Transmission electron microscopy on as-deposited and freestanding single crystalline Fe ₇₀ Pd ₃₀ ferromagnetic shape memory alloy thin film. 2017 , 136, 97-100		1
585	Dynamic twinning stress and viscous-like damping of twin boundary motion in magnetic shape memory alloy Ni-Mn-Ga. 2017 , 139, 126-129		17
584	Unusual nature of the martensite and ferromagnetic transitions in Ni ₂ Mn _{0.4} XFeXCr _{0.6} Ga Heusler alloys. <i>AIP Advances</i> , 2017 , 7, 056432	1.5	
583	Specific Changes in the Magnetoresistance of NiFeGa Heusler Alloys Induced by Cu, Co, and Al Substitutions. 2017 , 53, 1-7		5
582	High-Performance Thermomagnetic Generators Based on Heusler Alloy Films. 2017 , 7, 1601879		43
581	Barocaloric effect associated with magneto-structural transformation studied by an effectively indirect method for the Ni _{58.3} Mn _{17.1} Ga _{24.6} Heusler alloy. 2017 , 52, 2915-2923		19
580	Electronic structure and X-ray magnetic circular dichroism in the Ni-Mn-Ga Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1826-1837	5.7	7
579	Effect of Gd addition on microstructure, martensitic transformation and mechanical properties of Ni ₅₀ Mn ₃₆ Sn ₁₄ ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 288-293	5.7	12
578	Austenite arrest in polycrystalline Ni-Mn-Co-In films. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 700-704	5.7	3
577	Magnetostructural transformation and its multiple functional properties for Co-doped Ni ₅₆ Mn ₁₈ Ga ₂₆ Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 532-538	5.7	4
576	Phase-field simulation of magnetic hysteresis and mechanically induced remanent magnetization rotation in Ni-Mn-Ga ferromagnetic shape memory alloy. 2017 , 127, 49-53		15
575	Picosecond view of a martensitic transition and nucleation in the shape memory alloy Mn ₅₀ Ni ₄₀ Sn ₁₀ by four-dimensional transmission electron microscopy. <i>Physical Review B</i> , 2017 , 96,	3.3	7
574	SEM Study of Corrosion Deposits of Ni-Mn-Ga Fe Doped Shape Memory Alloys. 2017 , 23, 1096-1097		8
573	Magnetic shape-memory effect in SrRuO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	9
572	Optimum temperature for the sensing characteristics of MSMA. 2017 ,		1

571	Basic and Applied Research of Transition-metal Based Magnetic Materials. 2017 , 41, 81-93		2
570	A Combinatorial Study for Interdiffusion, Crystallography and Mechanical Behavior of Ni-Mn-Ga Alloys. 2017 , 371, 153-159		2
569	Entropy Change Caused by Martensitic Transformations of Ferromagnetic Shape Memory Alloys. <i>Metals</i> , 2017 , 7, 509	2.3	0
568	Ferromagnetic Shape Memory Alloys: Foams and Microwires. 2017 ,		1
567	Crystallographic Characterization on Polycrystalline Ni-Mn-Ga Alloys with Strong Preferred Orientation. <i>Materials</i> , 2017 , 10,	3.5	13
566	High Field X-ray Diffraction Study for Ni _{46.4} Mn _{38.8} In _{12.8} Co _{2.0} Metamagnetic Shape Memory Film. <i>Metals</i> , 2017 , 7, 364	2.3	0
565	Magnetostriction of Ni ₂ Mn _{1-x} CrxGa Heusler Alloys. <i>Metals</i> , 2017 , 7, 410	2.3	12
564	How to enable bulk-like martensitic transformation in epitaxial films. <i>AIP Advances</i> , 2017 , 7, 056428	1.5	3
563	Nanoscale Mechanical Properties of Nanoindented NiMnGa Ferromagnetic Shape Memory Thin Film. 2017 , 2017, 4630156		
562	A motionless actuation system for magnetic shape memory devices. 2017 , 26, 105013		2
561	Correlation of Crystalline Structure with Magnetic and Transport Properties of Glass-Coated Microwires. 2017 , 7, 41		49
560	Shape Memory and Huge Superelasticity in NiMnGa Glass-Coated Fibers. 2017 , 7, 5		2
559	Magnetostructural transformation and magnetocaloric effect in Ni ₄₂ Mn _{47.5} Sn _{10.5} and Ni _{41.5} Mn _{47.5} Sn _{10.5} Zn _{0.5} ferromagnetic shape memory alloys. 2018 , 5, 026108		0
558	First-principles calculations on elastic, magnetoelastic, and phonon properties of Ni ₂ FeGa magnetic shape memory alloys. 2018 , 27, 016201		1
557	Simultaneous tuning of martensitic transformation behavior, magnetic and mechanical properties in NiMnSn magnetic alloy by Cu doping. 2018 , 6, 5228-5238		9
556	Giant magnetic-field-induced strain in Ni-Mn-Ga micropillars. 2018 , 150, 173-176		19
555	Magnetostructural transformation and magnetocaloric effect in Mn _{48-x} V _x Ni ₄₂ Sn ₁₀ ferromagnetic shape memory alloys. 2018 , 27, 037504		4
554	Properties of as-deposited and heat-treated Ni-Mn-Ga magnetic shape memory alloy processed by directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 455-463	5.7	20

553	Large reversible magnetostrictive effect of MnCoSiBased compounds prepared by high-magnetic-field solidification. <i>Applied Physics Letters</i> , 2018 , 112, 052404	3-4	8
552	Compressive deformation of polycrystalline Ni-Mn-Ga alloys near chemical ordering transition temperature. 2018 , 142, 329-339		4
551	Pronounced pre-martensitic anomaly in the magnetization on Ni ₂ MnGa thin films. 2018 , 5, 056406		
550	Microstructure, magnetic and magnetocaloric properties in Ni _{42.9} Co _{6.9} Mn _{38.3} Sn _{11.9} alloy ribbons. <i>AIP Advances</i> , 2018 , 8, 056410	1.5	1
549	Evolution of phase transformation and magnetic properties with Fe content in Ni ₅₅ Fe _x Mn ₂₀ Ga ₂₅ Heusler alloys. 2018 , 51, 075004		4
548	Reversible magnetic-field-induced martensitic transformation over a wide temperature window in Ni ₄₂ Co _x Cu ₈ Mn ₃₇ Ga ₁₃ alloys. 2018 , 454, 97-102		1
547	Analysis of temperature effects in high accuracy ferromagnetic shape memory alloy actuators. 2018 , 271, 174-181		2
546	Magnetostructural transitions and magnetocaloric effects in Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} ribbons. <i>AIP Advances</i> , 2018 , 8, 056434	1.5	6
545	The effect of TM doping on the superconducting properties of ZrNi _{2-x} TM _x Ga (TM = Cu, Co) Heusler compounds. <i>AIP Advances</i> , 2018 , 8, 055704	1.5	2
544	A variable pole magnet. 2018 , 30, 075803		
543	Ni-Mn-Ga high temperature shape memory alloys: Function stability in Γ and Γ' regions. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 148-154	5-7	7
542	Magneto-optical Kerr effect of a Ni _{2.00} Mn _{1.16} Ga _{0.84} single crystal across austenite and intermartensite transitions. 2018 , 452, 373-379		3
541	Physical properties of half-Heusler YMnZ (Z = Si, Ge, Sn) compounds via ab-initio study. 2018 , 278, 10-19		12
540	Martensitic Transformation and Magnetic Properties of the CuAl, CuAlMn, and CuAlMnZn Alloys. 2018 , 31, 3919-3923		6
539	Mechanical Stabilization of Martensite in Cu ₂ NiAl Single Crystal and Unconventional Way to Detect It. 2018 , 4, 77-84		2
538	Integratable magnetic shape memory micropump for high-pressure, precision microfluidic applications. 2018 , 22, 1		30
537	Plastic deformation inducing ferromagnetism in Fe ₂ MnAl: Probing Fe magnetism. 2018 , 458, 225-231		4
536	Austenite \rightarrow martensite transformation in electrodeposited Fe ₇₀ Pd ₃₀ NWs: a step towards making bio-nano-actuators tested on in vivo systems. 2018 , 27, 035018		2

535	Non-volatile high-temperature shell-magnetic pinning of Ni-Mn-Sn Heusler precipitates obtained by decomposition under magnetic field. 2018 , 448, 13-18		8
534	Magnetic and Transport Properties of Mn ₂ Ni _{1.8} In _{0.2} Alloy. 2018 , 31, 493-496		1
533	Influence of Fe-doping on magnetic structure and martensitic transformation in Ni Mn In and Ni Mn Sb alloys. <i>Intermetallics</i> , 2018 , 93, 263-268	3-5	5
532	Realization of magnetostructural coupling in a high temperature region in Mn _{0.85} Co _{0.3} Ni _{0.85} Si _{1-x} Gax system. <i>Journal of Alloys and Compounds</i> , 2018 , 733, 15-21	5-7	6
531	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	5-7	13
530	Probing Structural and Magnetic Instabilities and Hysteresis in Heuslers by Density Functional Theory Calculations. 2018 , 255, 1700296		7
529	Ni-Mn-Ga micro-trusses via sintering of 3D-printed inks containing elemental powders. 2018 , 143, 20-29		45
528	Powder processing and characterisation of a quinary Ni-Mn-Co-Sn-Cu Heusler alloy. 2018 , 324, 69-75		7
527	The effect of loading rate on characteristics of type II twin boundary motion in Ni-Mn-Ga. 2018 , 144, 44-47		15
526	Multiferroic and Related Hysteretic Behavior in Ferromagnetic Shape Memory Alloys. 2018 , 255, 1700327		
525	On the microstructural origins of martensitic transformation arrest in a NiCoMnIn magnetic shape memory alloy. 2018 , 142, 95-106		46
524	First order magneto-structural transition and magnetocaloric effect in MnNiGe _{0.9} Ga _{0.1} . 2018 , 270, 54-57		9
523	Pressure effect of magnetic and electronic properties of Mn ₂ PtGa Heusler alloy. 2018 , 382, 224-230		8
522	Site occupancy, composition and magnetic structure dependencies of martensitic transformation in MnNi Sn. 2018 , 30, 015401		4
521	Lattice Location Effect of Ni ₅₀ Mn ₃₆ Sn ₁₄ Heusler Alloy. 2018 , 31, 1101-1109		14
520	Martensite Transformation and Mechanical Properties of Polycrystalline Co-Ni-Al Alloys with Gd Doping. <i>Metals</i> , 2018 , 8, 848	2-3	5
519	Diffusion and its Application in NiMnGa Alloys. 2018 , 19, 80-95		0
518	Magnetic Field-Induced Strain of Metamagnetic Heusler Alloy Ni ₄₁ Co ₉ Mn _{31.5} Ga _{18.5} . 2018 ,		

517	Electronic structure in the twinned 10M martensite phase of the Ni _{49.7} Mn _{29.1} Ga _{21.2} Heusler alloy: Experiment and theory. <i>Physical Review B</i> , 2018 , 98,	3-3	3
516	High magnetoelectric coupling in Si-integrated AlN/NiMnIn thin film double layers at room temperature. <i>Applied Physics Letters</i> , 2018 , 113, 242902	3-4	9
515	Effect of disorder on magnetic properties and martensitic transformation of Co-doped Ni-Mn-Al Heusler alloy. <i>Intermetallics</i> , 2018 , 102, 132-139	3-5	5
514	Magnetic Shape Memory Turns to Nano: Microstructure Controlled Actuation of Free-Standing Nanodisks. 2018 , 14, e1803027		10
513	A Thermo-Magneto-Mechanically Coupled Constitutive Model of Magnetic Shape Memory Alloys. 2018 , 31, 535-556		3
512	Homogenization in Magnetic-Shape-Memory Polymer Composites. 2018 , 1-17		1
511	Electron diffraction covering a wide angular range from Bragg diffraction to small-angle diffraction. 2018 ,		9
510	Phenomenological modeling of the thermo-magneto-mechanical behavior of magnetic shape memory alloys. 2018 , 29, 3696-3709		1
509	Martensitic transformation, twin boundary and phase interface mobility of directionally solidified Ni-Mn-Ga alloys during compression by EBSD tracing. 2018 , 375, 012023		
508	Magnetic and Structural Properties of MnCoGe with Minimal Fe and Sn Substitution. 2018 , 59, 1645-1650		6
507	Probing Glassiness in Heuslers via Density Functional Theory Calculations. 2018 , 153-182		1
506	Potential of Ferromagnetic Shape Memory Alloys as Power Units in Hydraulic Pumps. 2018 ,		0
505	Large enhancement of magnetic-field-induced strain in two-phase ferromagnetic nanodispersions. <i>Physical Review B</i> , 2018 , 98,	3-3	5
504	The crystallization kinetics of Co doping on Ni-Mn-Sn magnetic shape memory alloy thin films.. 2018 , 8, 25819-25828		1
503	Martensitic transformation and magnetic properties in Mn ₄₉ Cu _x Ni ₄₁ Sn ₁₀ (x = 0). 2018 , 1		1
502	Orientation dependent cyclic stability of the elastocaloric effect in textured Ni-Mn-Ga alloys. <i>AIP Advances</i> , 2018 , 8, 055312	1-5	24
501	Phase stability, electronic, magnetic and elastic properties of Ni ₂ CoZ(Z = Ga, Sn): A first principles study with GGA method and GGA+U approach. 2018 , 56, 1394-1404		6
500	Thermal, magnetic field- and stress-induced transformation in Heusler-type Co-Cr-Al-Si shape memory alloys. 2018 , 153, 35-39		15

499	Crystal orientation dependence of magnetostriction of twinned perovskite cobalt oxide. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 327-331	5.7	2
498	Effect of Zn-doping on the phase transition and magnetic properties of Heusler alloys Ni ₂ MnGa _{1-x} Zn _x (x = 0, 0.25, 0.5, 0.75 and 1). 2018 , 464, 65-70		11
497	Microwave absorption through the martensitic and Curie transitions in Ni ₄₅ Cr ₅ Mn ₃₇ In ₁₃ . <i>AIP Advances</i> , 2018 , 8, 056707	1.5	3
496	Sintering regimes and resulting microstructure and properties of binder jet 3D printed Ni-Mn-Ga magnetic shape memory alloys. 2018 , 154, 355-364		47
495	Localized deformation in Ni-Mn-Ga single crystals. <i>Journal of Applied Physics</i> , 2018 , 123, 215102	2.5	8
494	Specific heat and the influence of hydrostatic pressure on the phase transitions in Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} . 2018 , 463, 19-22		2
493	Ab-initio study of X-ray absorption and X-ray magnetic circular dichroism spectra of Mn ₂ PtGa and Co ₂ PtGa alloys. 2018 , 466, 143-149		0
492	Direct observation of nano-dimensional internal structure of ferromagnetic domains in the ferromagnetic shape memory alloy Co-Ni-Ga. 2018 , 466, 125-129		6
491	Improvement of mechanical property and large shape recovery of sintered Ni ₄₅ Mn _{36.6} In _{13.4} Co ₅ alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 264-270	5.7	8
490	Composition dependence of transition temperatures on quaternary Co-Fe-Ni-Ga melt-spun alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 901-905	5.7	1
489	Modulations in martensitic Heusler alloys originate from nanotwin ordering. 2018 , 8, 8489		30
488	Ferromagnetic Shape Memory Heusler Materials: Synthesis, Microstructure Characterization and Magnetostructural Properties. <i>Materials</i> , 2018 , 11,	3.5	13
487	Smart Shape Memory Actuator Based on Monocrystalline Ni ₂ FeGa Glass-Coated Microwire. 2018 , 54, 1-5		6
486	Recent Progress in Shape Memory Alloys. 2018 , 59, 327-331		12
485	Magnetic pulse controlled microstructure development in Co ₄₉ Ni ₂₁ Ga ₃₀ single crystals. 2018 , 34, 1954-1964		
484	Properties and Decomposition of Heusler Alloys. 2018 , 6, 1478-1490		11
483	Novel Research for Development of Shape Memory Alloys. <i>Metals</i> , 2018 , 8, 125	2.3	3
482	Designing a New Ni-Mn-Sn Ferromagnetic Shape Memory Alloy with Excellent Performance by Cu Addition. <i>Metals</i> , 2018 , 8, 152	2.3	4

481	Ni-based Heusler compounds: How to tune the magnetocrystalline anisotropy. <i>Physical Review B</i> , 2018 , 98,	3.3	13
480	Phase structure evolution on Ni-Mn-Ga/Si (100) thin films: Effect of substrate temperature. <i>Intermetallics</i> , 2018 , 101, 18-26	3.5	2
479	Crystal orientation in NiMnIn melt-spun ribbons. 2018 , 1		2
478	The effect of Fe doping on the crystallization kinetics of Ni-Mn-Sn free-standing alloy thin films. 2018 , 495, 19-26		6
477	Evolution of microstructure and microsegregation in Ni-Mn-Ga alloys directionally solidified under axial magnetic field. <i>Journal of Alloys and Compounds</i> , 2018 , 758, 54-61	5.7	8
476	Transformation Paths from Cubic to Low-Symmetry Structures in Heusler NiMnGa Compound. 2018 , 8, 7275		15
475	¹¹⁹ Sn Mössbauer spectroscopy in the study of metamagnetic shape memory alloys. 2018 , 239, 1		2
474	Influence of Doping Tb on the Mechanical Properties and Martensitic Transformation of Ni-Mn-Sn Magnetic Shape Memory Alloys. 2018 , 8, 247		4
473	Influence of defects on the irreversible phase transition in the Fe-Pd doped with Co and Mn. 2018 , 23,		
472	Study of the martensitic transition in Ni-Mn-Sn-Ti ferromagnetic shape memory alloys. 2018 , 23,		0
471	Coupling Phenomena in Magnetocaloric Materials. 2018 , 6, 1429-1447		6
470	Magnetic and thermoelectric properties of melt-spun ribbons of Fe ₂ XAl (X = Co, Ni) Heusler compounds. <i>Journal of Applied Physics</i> , 2018 , 124, 075105	2.5	6
469	Dynamic magnetic shape memory alloys responses: Eddy current effect and Joule heating. 2018 , 465, 278-289		9
468	A simple electron counting model for half-Heusler surfaces. 2018 , 4, eaar5832		15
467	Origin of temperature hysteresis of the magnetic transition in martensitic phase of Ni _{51.9} Mn ₂₇ Ga _{21.1} alloy. 2018 , 154, 60-63		4
466	Novel high entropy alloys of Fe _x Co _{1-x} NiMnGa with excellent soft magnetic properties. <i>Intermetallics</i> , 2018 , 100, 1-8	3.5	38
465	The role of β phase on the thermo-mechanical properties of NiMnGaFe alloys polycrystalline samples. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 883-890	5.7	5
464	Engineering ionic conductivity of ionomeric membranes: influence of Van der Waals volume of counterions and temperature. 2018 , 5, 065325		1

463	Adaptive modulation in the Ni ₂ Mn _{1.4} In _{0.6} magnetic shape-memory Heusler alloy. <i>Physical Review B</i> , 2018 , 97,	3.3	12
462	Effects of surface modifications on the fatigue life of unconstrained Ni-Mn-Ga single crystals in a rotating magnetic field. 2018 , 155, 175-186		10
461	The Preference of the Ferromagnetic Ordering for the Novel Heusler (Rh) ₂ (MnTi) Compound. 2019 , 32, 1415-1421		1
460	Changes in structural, magnetic and magnetocaloric properties due to homogenization annealing in Ni ₅₄ Mn ₁₉ Ga ₂₇ . 2019 , 469, 183-188		6
459	Phenomenological constitutive modeling of ferromagnetic shape memory alloys considering the effects of loading history on reorientation start conditions. 2019 , 31, 1065-1085		2
458	Study of the critical parameters for magnetic field-induced strain in high temperature Ni-Mn-Ga-Co-Cu-Fe single crystals. 2019 , 158, 16-19		6
457	Significance of isostructural distortion and strong magnetoelastic coupling in the weak ferromagnet YFe _{0.9} Cr _{0.1} O ₃ . <i>Journal of Applied Physics</i> , 2019 , 126, 074103	2.5	2
456	Influence of antiphase and ferroelastic domain boundaries on ferromagnetic domain wall width in multiferroic Ni-Mn-Ga compound. <i>Applied Physics Letters</i> , 2019 , 115, 032401	3.4	6
455	Interfacial Stresses and Anomalous Shape of Pseudoelastic Deformation Curves in Ni ₄₉ Fe ₁₈ Ga ₂₇ Co ₆ Alloy Crystals Compressed along the [011]A Axis. 2019 , 64, 819-827		6
454	Magnetoresistance and Thermal Transformation Arrest in PdMnSn Heusler Alloys. <i>Materials</i> , 2019 , 12,	3.5	2
453	Tailoring the structural and magnetic properties of epitaxially growth NiMnGa magnetic films by Fe addition. 2019 , 99, 2971-2983		1
452	Thermal and structural properties of the martensitic transformations in Fe ₇ Pd ₃ shape memory alloys: an ab initio-based molecular dynamics study. 2019 , 21, 063007		1
451	Unusual magnetic and electronic properties of Al-substituted Ga ₂ MnNi: An ab initio study. 2019 , 490, 165521		1
450	Enlightening from α and β phase transformations in Al-Co-Ni alloy system: A review. 2019 , 23, 100784		11
449	Great Differences between Low-Temperature Grown Co ₂ FeSi and Co ₂ MnSi Films on Single-Crystalline Oxides. 2019 , 1, 2371-2379		6
448	Additive manufacturing of magnetic materials. 2019 , 30, 100870		17
447	Microstructure and magnetic properties of as-cast Ni ₂ MnGa rods and tubes solidified by suction casting. 2019 , 158, 109956		0
446	A simple method to characterize high rate twin boundary kinetics in Ni-Mn-Ga. <i>Review of Scientific Instruments</i> , 2019 , 90, 105107	1.7	5

445	Laser powder bed fusion of Ni-Mn-Ga magnetic shape memory alloy. 2019 , 30, 100891		4
444	Theoretical predictions of magnetic shape memory alloys in Gallium-rich Heusler compounds. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	1
443	Correlation of Dynamic Elastic Properties of a Heat-Treated CoNiAl Alloy System with Its Microstructural Changes. 2019 , 5, 468-475		
442	Interference between distortion and magnetization for the reentrant martensitic transition in Heusler-type alloys Co ₂ Cr(Ga,Si). <i>Physical Review B</i> , 2019 , 100,	3.3	0
441	Synthesis and structural studies of Ni-Mn based Heusler shape memory alloys. 2019 ,		
440	Exotic magnetic behaviour and evidence of cluster glass and Griffiths like phase in Heusler alloys FeMnCrAl (0 x 1). 2019 , 9, 15888		13
439	First-Principles Investigation on the Fully Compensated Ferrimagnetic Behavior in Ti ₂ NbSb and TiZrNbSb. 2019 , 36, 067101		
438	Electronic and magnetic properties of Ni ₂ MnGa: Monte-Carlo and ab-initio calculations. 2019 , 1292, 012018		
437	Theoretical Prediction of Martensitic Transformation in Mn ₃ Si Heusler Alloy. 2019 , 5, 258-262		
436	Magnetocapacitance effect and magnetostriction by the field-induced spin-crossover in [MnIII(taa)]. <i>AIP Advances</i> , 2019 , 9, 085219	1.5	8
435	First-principles study of Pt doping effects on Ni ₂ MnGa and Ni ₂ FeGa ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2019 , 126, 085103	2.5	5
434	First-Principles Study on a New All-d-Metal Full-Heusler-Based Shape-Memory Alloy Cd ₂ MnPd. 2019 , 09, 1950012		5
433	Long flexible melt-spun NiCoMnIn ribbons with shape memory effect and caloric performances above 300 K. 2019 , 8, 100493		2
432	Theoretical study and numerical simulations on the stress-induced twin interface nucleation in single-crystalline NiMnGa alloys. <i>Journal of Applied Physics</i> , 2019 , 126, 115101	2.5	6
431	Multiphysics modeling of an MSMA-based clamped/clamped inertial energy harvester. 2019 , 28, 035029		3
430	Effect of Annealing on the Structural and Magnetic Properties of CoNiAl FSMA. 2019 , 54, 1800153		1
429	Time dependent nanomechanical properties of NiMnGa Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 10-20	5.7	1
428	Powder Metallurgy Synthesis of Heusler Alloys: Effects of Process Parameters. <i>Materials</i> , 2019 , 12,	3.5	2

427	A first principles systematic study of the structural, electronic, and magnetic properties of Heusler X ₂ MnZ with X = Fe, Co, Ni, Cu, Ru, Rh, Pd, Ag, Pt, Au and Z = Al, Si, Ga, Ge, In and Sn. 2019 , 6, 106118		7
426	Martensitic transformation and shape memory effect in Pd ₅₀ Mn ₅₀ Ga alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 379-387	5-7	4
425	Electronic behaviors during martensitic transformations in all-d-metal Heusler alloys. 2019 , 31, 425401		15
424	Martensitic transition and magnetic structure in Zn-doped Heusler alloy Mn ₂ NiGa: A theoretical approach. 2019 , 134, 127-132		4
423	Chemical order and residual stress analysis in Ni ₂ MnGa alloys. <i>Intermetallics</i> , 2019 , 112, 106522	3-5	2
422	Martensitic transformation and magnetic properties of Heusler alloys Co-V-(Al, Ga, In). 2019 , 168, 11-16		3
421	Exploring the Function Fatigue Behavior of Ferromagnetic Shape Memory Alloy. 2019 , 472, 012007		
420	Enhanced elastocaloric effect and mechanical properties of Fe-doped NiMnAl ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2019 , 112, 106529	3-5	15
419	The preparation of flexible Ni-Mn-In thin films on mica substrates by pulsed laser deposition. 2019 , 488, 165244		4
418	Microstructure, magnetism and nanomechanical properties of Ni ₅₀ Mn ₂₅ Ga ₂₀ Gd ₅ magnetic shape memory alloy before and after heat treatment. 2019 , 37, 1224-1229		3
417	Magnetic field induced martensitic transition in Fe doped Ni-Mn-Sn-B shape memory ribbons. <i>Intermetallics</i> , 2019 , 111, 106493	3-5	7
416	First investigation on processing parameters for laser powder bed fusion of Ni-Mn-Ga magnetic shape memory alloy. 2019 , 31, 022303		12
415	Pressure induced martensitic transition, magnetocaloric and magneto-transport properties in Mn-Ni-Sn Heusler alloy. 2019 , 487, 165307		7
414	Experimental Observation of Vacancy-assisted Martensitic Transformation Shift in Ni-Fe-Ga Alloys. 2019 , 122, 165701		6
413	Structural, magnetic and magnetocaloric properties of Ni ₄₃ Mn _{46-x} Fe _x Sn ₁₁ (x = 0, 6, 8, 10) alloys. <i>AIP Advances</i> , 2019 , 9, 035005	1-5	3
412	Epitaxial strain adaptation in chemically disordered FeRh thin films. <i>Physical Review B</i> , 2019 , 99,	3-3	3
411	NiMn-based Heusler magnetic shape memory alloys: a review. 2019 , 103, 2761-2772		28
410	Magnetic coercivity control by heat treatment in Heusler NiMnGa(B) single crystals. 2019 , 169, 109-121		12

409	Identification of a Ni-vacancy defect in Ni-Mn-Z (Z=Ga, Sn, In): An experimental and DFT positron-annihilation study. <i>Physical Review B</i> , 2019 , 99,	3-3	9
408	Magnetic field-induced rubber-like behavior in Ni-Mn-Ga particles/polymer composite. 2019 , 9, 3443		7
407	Composition dependence of martensitic transformation and crystal structure in Ni ₅₀ Mn ₂₅ Ga _{25-x} Cu _x Heusler alloys. <i>Intermetallics</i> , 2019 , 109, 157-161	3-5	4
406	Martensitic Transformation and Magnetocaloric Effect in High-Pressure Synthesized Ni ₅₃ Mn _{23.5} Ga _{23.5} Alloys. 2019 , 32, 2673-2678		0
405	Large reversible magnetic-field-induced strain in a trained Ni _{49.5} Mn ₂₈ Ga _{22.5} polycrystalline alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 399-404	5-7	6
404	Acoustic Emissions during Structural Changes in Shape Memory Alloys. <i>Metals</i> , 2019 , 9, 58	2-3	6
403	Influence of Cr Alloying (1.5 to 5 at.%) on Martensitic Phase Transformation Temperatures in Co-Ni-Ga-Cr Thin Films. 2019 , 5, 106-112		1
402	The Crystallization Kinetics of Ni-Mn-Ga Magnetic Shape Memory Alloy Thin Films. 2019 , 48, 2137-2143		0
401	Role of composition, site ordering, and magnetic structure for the structural stability of off-stoichiometric Ni ₂ MnSb alloys with excess Ni and Mn. <i>Physical Review B</i> , 2019 , 99,	3-3	8
400	Direct measurement of shape memory effect for Ni ₅₄ Mn ₂₁ Ga ₂₅ , Ni ₅₀ Mn _{41.2} In _{8.8} Heusler alloys in high magnetic field. 2019 , 482, 317-322		10
399	Transport properties of ferrimagnetic Mn ₂ CoSn Heusler alloy. 2019 , 485, 193-196		3
398	Ultrafast actuation of Ni-Mn-Ga micropillars by pulsed magnetic field. 2019 , 162, 482-485		13
397	Excellent superelasticity of Cu-Al-Mn-Cr shape memory single crystal obtained only through annealing cast polycrystalline alloy. 2019 , 165, 20-24		10
396	Martensitic transformation and magnetic behavior in Mn-rich Heusler MnNiIn shape memory alloys. 2019 , 504, 012009		0
395	Microstructure evolution and mechanical improvement by rapid solidification of polycrystalline Co ₃₅ Ni ₃₂ Al ₃₂ Dy alloy. 2019 , 6, 126545		3
394	The Characteristic Properties of Magnetostriction and Magneto-Volume Effects of NiMnGa-Type Ferromagnetic Heusler Alloys. <i>Materials</i> , 2019 , 12,	3-5	7
393	Two types of magnetic shape-memory effects from twinned microstructure and magneto-structural coupling in Fe Te. 2019 , 116, 16697-16702		6
392	Microstructure evolution and kinetic laws for the motion of multiple twin boundaries in NiMnGa. 2019 , 12, 1850102		4

391	On the fast kinetics of B2 \rightarrow 21 ordering in Ni-Co-Mn-In metamagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 479-489	5-7	7
390	A theoretical and experimental investigation on the structure and magnetic properties of Mn ₂ CrGa. <i>Intermetallics</i> , 2019 , 106, 71-76	3-5	0
389	Low-cost Cu-based shape memory single crystals obtained by abnormal grain growth showing excellent superelasticity. 2019 , 5, 100200		9
388	Magnetic and Thermoelectric Properties of Fe \rightarrow iBn Alloys. 2019 , 55, 1-4		1
387	Magnetocaloric materials: From micro- to nanoscale. 2019 , 34, 134-157		26
386	Thermal, acoustic and magnetic noises emitted during martensitic transformation in single crystalline Ni ₄₅ Co ₅ Mn _{36.6} In _{13.4} meta-magnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 669-680	5-7	4
385	Exploring the annealing temperature impacting on the magnetic coupling of nanometer soft grain and microstructure hard grain nanocomposites. 2019 , 57, 403-417		1
384	Effects of Ti and Gd for Ga substitution on microstructure, magnetic and mechanical properties of polycrystalline Ni-Mn-Ga magnetic shape memory alloy. 2019 , 476, 497-505		3
383	Effect of Ru substitution on structural, magnetic and transport behavior of Ni ₅₀ Mn ₃₈ Sb ₁₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 783, 977-989	5-7	3
382	Suppression of twinning mechanism on nanoscale: size effect in Cu \rightarrow iAl shape memory alloy. 2019 , 54, 6586-6593		5
381	Large reversible magnetostriction and improved mechanical properties in epoxy-reinforced MnCoSi _{1-x} Gex cast ingots. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 16-21	5-7	5
380	Rapid floating zone growth of Ni ₂ MnGa single crystals exhibiting magnetic shape memory functionality. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 533-541	5-7	9
379	Orthogonal shear process in Ni-Mn-Sn single crystal. 2019 , 114, 63-71		10
378	Shape memory effect of dual-phase NiMnGaTb ferromagnetic shape memory alloys. 2019 , 26, 321-328		3
377	Magnetic properties of the Martensitic transformations with twinned and detwinned. <i>Physica B: Condensed Matter</i> , 2019 , 553, 161-168	2-8	18
376	First-principles investigation of the martensitic transition and magnetic properties in Heusler alloys Mg ₂ YZ (Y = Sc, Ti, V, Z = Al, Ga, In). 2019 , 471, 82-88		5
375	Ternary diagrams of magnetic properties of Ni-Mn-Ga Heusler alloys from ab initio and Monte Carlo studies. 2019 , 470, 64-68		9
374	Martensitic transformation, crystal structure and shape memory effect in Ni ₅₅ Mn ₂₅ Ga ₂₀ Cox alloys. 2020 , 36, 961-965		4

373	Stress-induced a/b compound twins redistribution in 10M Ni-Mn-Ga martensite. 2020 , 175, 11-15		8
372	Magnetic properties and site preference of Ru in Heusler alloys Fe ₂ V _{1-x} Ru _x Si (x = 0.25, 0.5, 0.75, 1). 2020 , 496, 165908		3
371	Anomalous Nernst effect in Co ₂ MnSi thin films. 2020 , 53, 035005		7
370	An energy-relaxation-based framework for the modelling of magnetic shape memory alloysSimulation of key response features under homogeneous loading conditions. 2020 , 182-183, 162-178		1
369	Martensitic transformation and magnetocaloric effect in melt-spun Mn ₅₀ Ni _{31.5} Co _{8.5} Ti ₁₀ all-3d-metal alloy ribbons. 2020 , 493, 165733		5
368	Ab-initio study of electronic and magnetic properties of ColrMnZ (Z = Al, Si, Ga, Ge) Heusler alloys. 2020 , 498, 166092		2
367	Under-microscope Mechanical Pulse System for Studying Deformation Processes at High Strain Rates. 2020 , 60, 191-204		4
366	An overview on the structural diversity of europium based ternary intermetallics. 2020 , 281, 121048		6
365	Promising spintronics: Mn-based Heusler alloys Mn ₃ Ga, Mn ₂ YGa (Y = V, Nb, Ta), ScMnVGa. 2020 , 497, 166060		20
364	Enhanced electromagnetic wave absorption properties of Ni ₂ MnGa microparticles due to continuous dual-absorption peaks. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152588	5-7	2
363	Ferroelasticity and Shape Memory Alloy. 2020 , 231-245		
362	Sintering effects on additive manufactured NiMnGa shape memory alloys: a microstructure and thermal analysis. 2020 , 55, 5311-5321		9
361	Dynamic observation of Joule heating-induced structural and domain transformation in smart shape-memory alloy. 2020 , 186, 223-228		8
360	Ab-initio revelation on the origins of Ti substitution for Ga, Mn and Ni on ferromagnetism, phase stability and elastic properties in Ni ₂ MnGa. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153481	5-7	11
359	Magnetic glassy state at low spin state of Co in EuBaCoO (x= 0.47) cobaltite. 2020 , 32, 155803		0
358	Structural, magnetic properties and diagram phases of the quaternary Heusler compound MnNiCuSb. 2020 , 497, 166059		4
357	Combinatorial synthesis of NiMnGa-(Fe,Co,Cu) high temperature ferromagnetic shape memory alloys thin films. 2020 , 178, 104-107		5
356	First-principles calculations of a new half-metallic Heusler alloy FeCrAs. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153118	5-7	10

355	The mechanism of magnetostructural transition in Heusler alloy Co ₂ V _{1.5} Ga _{0.5} . 2020 , 498, 166252		2
354	The Effect of Local Arrangement of Excess Mn on Phase Stability in NiMnGa Martensite: An Ab Initio Study. 2020 , 6, 35-44		3
353	Magnetic phase transitions of all-d metal Heusler type model. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153299	5-7	1
352	Crossing twin of NiMnGa 7M martensite induced by thermo-mechanical treatment. 2020 , 185, 28-37		9
351	Phase stability, magnetic and elastic properties of Co ₂ NiGa alloy: A first-principles calculation. 2020 , 22, 100810		3
350	Room-temperature magnetoelectricity and magnetic field sensing characteristics of 2 μ phase connected NiMnIn/PLZT layered multiferroic heterostructure. 2020 , 53, 055304		3
349	Hierarchical twin microstructure in modulated 10M NiMn-Ga single crystals. An analysis including shuffling of atomic layers. 2020 , 126, 102628		11
348	Heat treatment effect on the magnetic properties and martensitic transformations of MnCoGe. 2020 , 499, 166199		1
347	Effect of Ti doping on the phase transitions, magnetocaloric effect, and exchange bias in Ni ₄₃ Mn ₄₆ Sn ₁₁ Ti _x Heusler alloys. 2020 , 498, 166216		5
346	Magnetization behavior of NiMnGa alloy nanowires prepared by DC electrodeposition. 2020 , 498, 166232		5
345	Thermal expansion anisotropy formed by extrusion for Ni _{2.26} Mn _{0.80} Ga _{0.89} Si _{0.05} alloy. 2020 , 514, 167160		2
344	Electronic structure beyond the generalized gradient approximation for Ni ₂ MnGa. <i>Physical Review B</i> , 2020 , 102,	3-3	3
343	Role of Fe addition in NiMnGaCoCuBe ferromagnetic shape memory alloys for high-temperature magnetic actuation. 2020 , 196, 549-555		5
342	Direct observation of electric and magnetic fields of functional materials. 2020 , 142, 100564		5
341	A comparative study of the influence of the deposition technique (electrodeposition versus sputtering) on the properties of nanostructured FePd films. 2020 , 21, 424-434		6
340	Order and Temperatures of Magnetic Transitions in a NiMnGaAl Alloy. 2020 , 56, 1-5		0
339	Upscaling of Thermomagnetic Generators Based on Heusler Alloy Films. 2020 , 4, 2718-2732		7
338	Control of microstructure using magnetic fields and study of the mechanical behavior of Ni-rich Ni-Mn-Ga alloys. 2020 , 199, 383-396		10

337	Decomposition in Ni-Co-Mn-In functional Heusler alloys and its effect on shell-ferromagnetic and magnetocaloric effects. <i>Physical Review B</i> , 2020 , 102,	3-3	1
336	Temperature Dependence of Anisotropy in Ti and Gd Doped NiMnGa-Based Multifunctional Ferromagnetic Shape Memory Alloys. <i>Materials</i> , 2020 , 13,	3-5	1
335	The structural, magnetic and electronic properties of Fe-Ni-Ga ternary Heusler alloys. 2020 , 260, 114654		8
334	Shape Memory Effect of Polycrystalline Ni ₅₄ Mn ₂₅ Ga _{17.5} Ta _{0.5} High Temperature Shape Memory Alloy with Wide Hysteresis Loop. 2020 , 837, 35-40		
333	Temperature-Diversified Anisotropic Superelasticity and Ferroelasticity in a 3-Methyl-4-Nitrobenzoic Acid Crystal. 2020 , 20, 6211-6216		5
332	Role of (FeAl) nanoparticles in abnormal grain growth in the annealing of cast Cu-Al-Mn-Fe shape memory alloys. 2020 , 30, 510-516		3
331	Room temperature magnetic shape-memory effect in strontium-doped lanthanum cobaltite single crystals. <i>AIP Advances</i> , 2020 , 10, 095217	1-5	1
330	Unraveling magneto-structural coupling of Ni ₂ MnGa alloy under the application of stress and magnetic field using in situ polarized neutron diffraction. <i>Applied Physics Letters</i> , 2020 , 117, 081905	3-4	2
329	Theory of giant magnetocaloric effect in the shape memory alloy undergoing magnetostuctural phase transition. 2020 , 46, 764-767		1
328	Phase Transition and Electronic Structures of All--Metal Heusler-Type XMnTi Compounds (X = Pd, Pt, Ag, Au, Cu, and Ni). 2020 , 8, 546947		2
327	Microstructure of Ni ₂ MnGa Alloys Solidified by Suction Casting. 2020 , 26, 101-102		
326	Grain Growth, Porosity, and Hardness Changes in Sintered and Annealed Binder-jet 3D Printed Ni-Mn-Ga Magnetic Shape Memory Alloys. 2020 , 26, 3082-3085		
325	On coupled FEM-BEM simulation of the magneto-mechanical behavior of single-crystalline Ni-Mn-Ga alloys. 2020 , 121, 143-157		0
324	Modeling on the dynamic mechanical response of single-crystalline NiMnGa alloys based on Hamilton's principle. <i>AIP Advances</i> , 2020 , 10, 115104	1-5	3
323	Review of non-conventional technologies for assisting ultra-precision single-point diamond turning. 2020 , 111, 2667-2685		5
322	Microstructure, phase transformation and mechanical property of porous NiMnGa alloys prepared by one-step sintering. 2020 , 788, 139583		6
321	Effect of pressure on the phase stability and magnetostructural transitions in nickel-rich NiFeGa ribbons. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156092	5-7	3
320	A review of shape memory alloy based filtration devices. <i>AIP Advances</i> , 2020 , 10, 060701	1-5	5

319	The Effect of X Element on Magnetic Properties of NiMnX11 (X = In, Sn) Heusler Alloys. 2020 , 33, 3059-3064		2
318	First-principles investigation of Mg substitution for Ga on martensitic transformation, magnetism and electronic structures in Ni ₂ MnGa. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 156049	5-7	6
317	Effect of chemical and external hydrostatic pressure on magnetic and magnetocaloric properties of Pt doped Ni ₂ MnGa shape memory Heusler alloys. 2020 , 514, 167136		3
316	Development of Cu-Mn-Ga-based ferromagnetic shape memory single crystals. 2020 , 12, 100789		3
315	First-Principles Study of the Structure and Properties of Fe ₃ Pd and Fe ₃ BiAl Alloys. 2020 , 6, 61-66		2
314	. 2020 ,		2
313	Phase Equilibria at 1373 K in the Ni-Rich Portion of Ni-Ti-Sb Ternary System. 2020 , 41, 116-122		2
312	Sensitivity of twin boundary movement to sample orientation and magnetic field direction in Ni-Mn-Ga. 2020 , 186, 389-395		6
311	Effect of the low constituent boron on martensitic transformation, magnetic, and magnetocaloric properties of Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155493	5-7	3
310	Alloy Design and Development of Advanced Materials Based on Phase Diagrams and Microstructural Control. 2020 , 61, 807-819		2
309	Effect of Ge substitution on the magnetocaloric effect and exchange bias in Mn ₂ Ni ₂ Sn-Ge alloys: The role of Mn-Mn distance. <i>Journal of Alloys and Compounds</i> , 2020 , 837, 155280	5-7	6
308	Martensitic transition, magnetic and exchange bias properties in Mn rich Heusler alloy ribbons. 2020 ,		
307	Catalyst design concept based on a variety of alloy materials: a personal account and relevant studies. 2020 , 8, 15620-15645		16
306	Growth of Sn on Ni ₂ MnGa(100). 2020 ,		
305	Investigation on the preference of the martensitic structure in off-stoichiometric Ni-Mn-In alloys by first-principle calculations. 2020 , 514, 167194		0
304	Magnetic and Magneto-Optical Properties of FeMnGa Heusler-like Compounds. <i>Materials</i> , 2020 , 13,	3-5	3
303	Practical scheme for predicting twin interface nucleations in single-crystalline Ni-Mn-Ga alloys under coupled magnetic and mechanical loading conditions. 2020 , 504, 166650		3
302	Antiphase boundaries in Ni-Mn-Ga ordered compound. <i>AIP Advances</i> , 2020 , 10, 015137	1.5	2

301	Thermo-magneto-mechanical coupling dynamics of magnetic shape memory alloys. 2020 , 129, 102686		4
300	Magnetostriction enhancement in ferromagnetic strain glass by approaching the crossover of martensite. <i>Applied Physics Letters</i> , 2020 , 116, 072402	3-4	0
299	First-principles investigation of martensitic phase transitions in Platinum-rich full-Heusler alloys. 2020 , 24, 101012		2
298	Intersection Magnetization and Temperature Revealed by FCC-FCT Phase Transformation in the FePd Binary Alloy System. 2020 , 33, 2051-2058		6
297	Room temperature metamagnetic transformation of a tough dual-phase NiMnSnBe ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154606	5-7	12
296	Over 2% magnetic-field-induced strain in a polycrystalline Ni ₅₀ Mn _{28.5} Ga _{21.5} alloy prepared by directional solidification. 2020 , 780, 139170		3
295	Nitrogen-Doped carbon coupled FeNi ₃ intermetallic compound as advanced bifunctional electrocatalyst for OER, ORR and zn-air batteries. 2020 , 268, 118729		141
294	High-field magnetization and magnetic phase diagram of metamagnetic shape memory alloys Ni ₅₀ Co Mn _{31.5} Ga _{18.5} (χ_{FeD} and 9.7). 2020 , 181, 25-29		1
293	Martensitic transformation and large exchange bias in Mn-rich NiMnSn thin films on mica substrates. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 154303	5-7	7
292	Study of the effect of mechanical alloying on the structure of Ni-Mn-Sn Heusler alloy. 2020 , 34, 149-154		1
291	Variability of Twin Boundary Velocities in 10M NiMnGa Measured Under (μs)-Scale Force Pulses. 2020 , 6, 45-53		4
290	Variant reorientation in a single-crystalline NiMn-Ga sample induced by a quasi-static rotating magnetic field: Mechanism analyses based on configurational forces. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153940	5-7	4
289	Effect of Al substitution on the magnetocaloric properties of Ni-Co-Mn-Sn multifunctional alloys. <i>Intermetallics</i> , 2020 , 119, 106706	3-5	3
288	Martensite-enabled magnetic flexibility: The effects of post-growth treatments in magnetic-shape-memory Heusler thin films. 2020 , 187, 135-145		12
287	Origin of magnetocrystalline anisotropy in Ni-Mn-Ga-Co-Cu tetragonal martensite. 2020 , 503, 166522		9
286	Ambient effects on the output strain of NiMn-Ga single crystal magnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155159	5-7	0
285	Magnetic domain-twin boundary interactions in NiMnGa. 2020 , 193, 221-228		4
284	Sensoric application of glass-coated magnetic microwires. 2020 , 833-868		2

283	Exchange bias effect revealed by irreversible structural transformation between the HCP and FCC structures of Cobalt nanoparticles. 2020 , 93, 429-437		8
282	The effects of homogenization time on the crystal structure and hardness of NiMnGaMo alloy. 2021 , 24, 493-502		0
281	Structural, mechanical, thermal, and optical properties of inverse-Heusler alloys Cr ₂ CoZ (Z = Al, In): A first-principles investigation. 2021 , 385, 126967		15
280	Building Hierarchical Martensite. 2021 , 31, 2005715		10
279	Mechanical, corrosion and magnetic behavior of a CoFeMn _{1.2} NiGa _{0.8} high entropy alloy. 2021 , 73, 139-144		5
278	Impact of B alloying on ductility and phase transition in the NiMn-based magnetic shape memory alloys: Insights from first-principles calculation. 2021 , 74, 27-34		9
277	Martensitic transformation behaviour and mechanical property of dual-phase Ni-Co-Mn-Sn-Fe ferromagnetic shape memory alloys. 2021 , 521, 167540		5
276	Temperature versus composition phase diagram and temperature evolution of structure and modulation of Ni ₂ MnGa _{1-x} In _x single crystals. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157327	5-7	2
275	Post-annealing effects on structural and magnetic properties of pulsed laser deposition grown CoNiAl ferromagnetic shape memory alloys thin films. 2021 , 111, 106493		
274	Solid-state synthesis, rotatable magnetic anisotropy and characterization of Co _{1-x} Pt _x phases in 50Pt/50fccCo(001) and 32Pt/68fccCo(001) thin films. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 157938	5-7	2
273	Magnetomechanical properties of melt-spun off-stoichiometric Ni ₅₀ Mn ₂₈ Ga ₂₂ ribbons. 2021 , 524, 167639		2
272	Magnetic and thermoelectric properties of Co ₂ MnT (T = Ga, Si) Heusler compounds. <i>Physica B: Condensed Matter</i> , 2021 , 603, 412761	2.8	3
271	Martensitic Transformation and Metamagnetic Transition in Co-V-(Si, Al) Heusler Alloys. <i>Metals</i> , 2021 , 11, 226	2.3	0
270	Magnetostrictive Ni-Mn-Based Heusler Alloys. 2021 , 160-160		2
269	Versatile Device for the Study of Coupling Properties in Multifunctional Materials. Example: Ni-(Co)-Mn-In Heusler Materials. 2021 , 70, 1-12		0
268	Lightweight, multifunctional materials based on magnetic shape memory alloys. 2021 , 187-237		
267	Phenomenology of shape memory alloys. 2021 , 115-139		1
266	Magnetostriction and Magnetoelasticity. 2021 , 1-45		1

- 265 Research Progress on Magnetic-Field-Induced Strain and Magnetocaloric Effect of Ni-Mn Base Heusler Alloys. **2021**, 10, 15-24
- 264 First-principle study of effects of Zn-doping on electronic structure, magnetism and martensitic transformation of Heusler type MSMA s Ni $_2$ FeGa $_{1-x}$ Zn $_x$ ($x = 0\bar{1}$). **2021**, 70, 137101-137101
- 263 Metallic Magnetic Materials. **2021**, 1-116
- 262 Study of a magnetic SMA-based energy harvester using a corrugated structure. 1045389X2098390 0
- 261 Temperature dependence of the anomalous Nernst effect in Ni $_2$ MnGa shape memory alloy. *Physical Review B*, **2021**, 103, 3-3 2
- 260 Magnetic Shape Memory Composites. **2021**, 487-495
- 259 Magnetic field induced strain in polycrystalline Ni $_{50}$ Mn $_{29}$ Ga $_{21}$ ferromagnetic shape memory alloy. **2021**,
- 258 A photoluminescent organosuperelastic crystal of 7-amino-4-methylcoumarin. **2021**, 23, 5801-5804 3
- 257 Improvement of magnetostriction performance by doping Mg in spinel MnV 2 O $_4$. *Applied Physics Letters*, **2021**, 118, 082406 3-4 1
- 256 Structural, magnetic and magnetostrictive properties of the ternary iron-Palladium-Silicon ferromagnetic shape memory ribbons. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1 2.6
- 255 Lumped Element Model for Thermomagnetic Generators Based on Magnetic SMA Films. *Materials*, **2021**, 14, 3-5 1
- 254 Characterization of as-built and heat-treated Ni-Mn-Ga magnetic shape memory alloy manufactured via laser powder bed fusion. **2021**, 39, 101854 3
- 253 Martensite-austenite transition correlated twinning and symmetry breaking in single crystalline Ni $_{50}$ Mn $_{35}$ In $_{15}$. **2021**, 5,
- 252 Competing Interactions between Mesoscale Length-Scales, Order-Disorder, and Martensitic Transformation in Ferromagnetic Shape Memory Alloys. **2021**, 206, 116616 8
- 251 Proton irradiation induced phase transformation in Ni-Mn-Ga thin films. **2021**, 266, 115078 0
- 250 Large magnetic-field-induced strain at the magnetic order transition in triangular antiferromagnet AgCrS $_2$. *Applied Physics Letters*, **2021**, 118, 142404 3-4 2
- 249 The role of quenched-in disorder in polycrystalline bulk and melt-spun ribbons of Ni $_{50}$ Mn $_{29}$ Ga $_{21}$. **2021**, 94, 183-191
- 248 Hysteretic structural changes within five-layered modulated 10M martensite of Ni-Mn-Ga(-Fe). **2021**, 33, 4

247	Ideal superelasticity in Ni-based Heusler alloys. 2021 , 210, 116816		6
246	Metamagnetic transition and magnetocaloric properties of Ni ₄₅ Mn ₄₂ In ₁₃ Heusler alloy. 2021 , 94, 289-297		1
245	A differential model for the hysteresis in magnetic shape memory alloys and its application of feedback linearization. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
244	Martensitic Transformation and Magnetic Properties of Ni ₅₇ Fe ₁₈ Ga ₂₅ Shape Memory Alloy Subjected to Severe Plastic Deformation. 2021 , 74, 2491		1
243	Kinetic Analysis of the Transformation from 14M Martensite to L21 Austenite in Ni-Fe-Ga Melt Spun Ribbons. <i>Metals</i> , 2021 , 11, 849	2.3	2
242	Microfabricated ferromagnetic-shape-memory Heuslers: The geometry and size effects. 2021 , 23, 101058		0
241	Microstructure evolution and mechanical behavior of Ni-rich Ni-Mn-Ga alloys under compressive and tensile stresses. 2021 , 97, 113-113		2
240	Traveling surface undulation on a NiMnGa single crystal element. 2021 , 30, 085001		1
239	A Ternary Map of NiMnGa Heusler Alloys from Ab Initio Calculations. <i>Metals</i> , 2021 , 11, 973	2.3	1
238	Effect of low annealing temperature on the structure and chemical order of Ni ₂ MnGa thin films. <i>Intermetallics</i> , 2021 , 133, 107165	3.5	1
237	Ni deficiency effects on martensitic phase transition in Ni ₂ MnGa. <i>Physica B: Condensed Matter</i> , 2021 , 611, 412794	2.8	0
236	Microstructure and micro-texture evolution in rapidly solidified melt-spun Ni ₅₀ Mn ₂₈ Ga ₂₂ ribbons. 2021 , 527, 167784		3
235	Above-room-temperature coupling between ferroelastic domains and magnetism in an organic-inorganic hybrid: CsCu(HCOO) ₂ Cl. 2021 , 5,		
234	Investigation of martensitic transformation and magnetoresistance properties of cu-substituted Ni-Mn-Sn-B melt spun ribbons. 2021 , 529, 167858		0
233	Griffiths phase and spontaneous magnetization in polycrystalline Co ₅₀ V ₃₄ Ga ₁₆ alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159421	5.7	1
232	Magnetoelasticity of Fe _{1-x} Ga _x thin films on amorphous substrates. <i>Physical Review B</i> , 2021 , 104,	3.3	
231	Variable Gap Sealing Technology of a Hydraulic Cylinder Based on Magnetic Shape Memory Alloy. 2021 , 11, 950		1
230	Martensitic and magnetic transitions in Ni _{2+x} MnGa _{1-x} ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159480	5.7	2

229	Pair distribution function study of Ni ₂ MnGa magnetic shape memory alloy: Evidence for the precursor state of the premartensite phase. <i>Physical Review B</i> , 2021 , 104,	3.3	0
228	Magnetic and Magnetostrictive Properties of Ni ₅₀ Mn ₂₀ Ga ₂₇ Cu ₃ Rapidly Quenched Ribbons. <i>Materials</i> , 2021 , 14,	3.5	
227	Transitory Ultrasonic Absorption in Domain Engineered Structures of 10 M Ni-Mn-Ga Martensite. <i>Metals</i> , 2021 , 11, 1505	2.3	0
226	Coexisting Multiple Martensites in Ni ₅₇ Mn _{21+x} Ga ₂₂ Ferromagnetic Shape Memory Alloys: Crystal Structure and Phase Transition. <i>Metals</i> , 2021 , 11, 1534	2.3	
225	Microstructure and properties of Ni-Co-Mn-Al magnetic shape memory alloy prepared by direct laser deposition and heat treatment. 2021 , 141, 107119		1
224	Self-Patterning of Multifunctional Heusler Membranes by Dewetting. 2021 , 8, 2100966		0
223	Transport properties of Heusler compounds and alloys. 2021 , 34,		3
222	Pressure and magnetic field-induced transport effects in Ni _{45.4} Mn ₄₀ In _{14.6} alloy. <i>Physica Scripta</i> ,	2.6	
221	Tribological Studies of NiMnIn and NiMnSn Magnetic Shape Memory Alloys. 1		0
220	Influence of martensitic configuration on hysteretic properties of Heusler films studied by advanced imaging in magnetic field and temperature. 2021 , 117356		0
219	Multiple Magnetic Phase Transitions in Fe ₃ MnxSi Heusler Compounds. 2021 , 90, 103701		
218	Magnetism and structure of Fe- and Co-substituted Mn ₂ NiSn. 2021 , 537, 168157		2
217	Effect of electron localization in theoretical design of Ni-Mn-Ga based magnetic shape memory alloys. 2021 , 209, 109917		5
216	Ordering mechanism and kinetics in Ni ₂ Mn _{1-x} Cu Ga ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161302	5.7	1
215	Giant magnetic-field-induced bending effect in Ni-Mn-Ga-Co-Cu melt-spun ribbons. 2021 , 205, 114203		0
214	Comparative study of structural and magnetic properties of ribbon and bulk Ni ₅₅ Fe ₁₉ Ga ₂₆ Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161819	5.7	0
213	Effect of spin-polarization on structural, electronic, and lattice dynamical properties of MnY ₂ Ga Full Heusler alloy. <i>Physica B: Condensed Matter</i> , 2022 , 624, 413425	2.8	1
212	Soft X-ray absorption spectroscopy and magnetic circular dichroism under pulsed high magnetic field of Ni-Co-Mn-In metamagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 890, 161590	5.7	0

211	Martensitic and inter-martensitic transformations in magnetocaloric Ni _{2.15} Mn _{0.85} Ga Heusler alloy. 2021 , 1-1	0
210	Martensitic transition, structural and magnetoresistive properties of shape memory Heusler melt spun ribbons. 2021 , 46, 2318-2321	
209	Magnetic, microstructural and magnetoresistive properties of Heusler melt spun ribbons. 2021 ,	0
208	Shape-Memory Alloys, Magnetically Activated Ferromagnetic Shape-Memory Materials.	8
207	Crystallography and Magnetic Field-Induced Strain by Co Doping NiCoMnGa Heusler Alloy. 967-974	1
206	Thermodynamics and Energy Conversion in Heusler Alloys. 2016 , 269-291	5
205	Imaging of Domains and Vortices in Multifunctional Materials. 2014 , 137-158	3
204	A DFT study on the austenitic Ni ₂ MnGa (001) surfaces. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155447	5
203	Electronic Composites: Modeling, Characterization, Processing, and MEMS Applications. 2005 ,	34
202	Techniques to characterize ternary and quaternary ferromagnetic shape memory alloys. 1-22	1
201	Lattice strain accommodation and absence of pre-transition phases in NiMn In. 2020 , 32, 505801	3
200	Insight into the magnetisation process of martensitic NiMnGa films: a micromagnetic and vector magnetometry study. 2020 , 3, 045003	3
199	Tuning the magnetocaloric response in half-Heusler/Heusler MnNi _{1+x} Sb solid solutions. 2017 , 1,	10
198	Manipulation of magnetostructural transition and realization of prominent multifunctional magnetoresponsive properties in NiCoMnIn alloys. 2019 , 3,	5
197	Magnetic field-induced magnetostructural transition and huge tensile superelasticity in an oligocrystalline Ni-Cu-Co-Mn-In microwire. 2019 , 6, 843-853	9
196	Ferromagnetic Shape Memory Alloys—Challenges, Applications, and Experimental Characterization. 2016 , 40, 1005	5
195	Electronic Structure and Magnetic Properties of Ni ₂ MnGa _{1-x} Gex and Disordered Ni ₂ MnSn Heusler Alloys. 2009 , 115, 241-243	6
194	Equivalence of Mechanical and Magnetic Force in Magnetic Shape Memory Effect. 2015 , 128, 754-758	4

193	Ni ₂ MnAl Single Crystals for Magnetic Scattering Neutron Holography. 2011 , 9, 331-333	2
192	Magnetic Behaviour of the Ferromagnetic Fe ₅₀ Ni ₃₀ Co ₂₀ Mn Alloy Subjected to Thermomechanical Treatment. 2018 , 40, 1209-1220	1
191	Ultrasonic study of structural instabilities in nickel induced by magnetic fields. 2008 , 11, 31-35	4
190	Phase Transformation and Magnetic Properties in Ni ₅₂ Fe _x Mn _{21-x} Ga ₂₇ Alloys. 2006 , 46, 1283-1286	3
189	Effects of Aging and Co Addition on Martensitic and Magnetic Transitions in Ni ₄₅ Al ₅₅ Fe-based Shape Memory Alloys. 2006 , 46, 1287-1291	3
188	Ordering Process and Variant Selection under Magnetic Field in L10-type Co ₅₀ Pt and Fe ₅₀ Pd Alloys. 2009 , 49, 1610-1614	5
187	Effect of Magnetic Field on Martensitic Transformation in Some Ferrous Alloys. 2005 , 91, 363-375	1
186	Ferroc materials and anomalous strains. 2005 , 96, 316-324	1
185	Shape memory ferromagnets. 2003 , 173, 577	41
184	Magnetic shape-memory alloys: phase transitions and functional properties. 2006 , 176, 900	10
183	Defect stabilities and magnetic properties of Ni-X-In (X= Mn, Fe and Co) alloys: a first-principle study. 2016 , 65, 096103	3
182	Giant Field-Induced Distortion in Mn ₃ SbN at Room Temperature. 2012 , 51, 043001	2
181	Quantitative reorientation behaviors of macro-twin interfaces in shape-memory alloy under compression stimulus in situ TEM. 2022 , 107, 243-251	1
180	Magnetic-field-induced transformation and strain in polycrystalline FeMnGa ferromagnetic shape memory alloys with high cold-workability. <i>Applied Physics Letters</i> , 2021 , 119, 142402	3-4 0
179	Theoretical study of the structural, electronic and magnetic properties of film surface and bulk based quaternary Heusler alloys Ni-Co-Mn-In. 2021 , 576, 126381	2
178	Magnetic Sensors and Actuators. 2003 , 8, 60-69	0
177	Low-Temperature Transformation and Magnetostriction of Ni ₂ MnGa. 2005 , 29, 265-268	
176	Effect of stress-induced martensite phase on barkhausen noise in Fe-30.2%Pd alloy. 2005 , 17, 146-152	

- 175 References. **2007**, 395-420
- 174 Ferromagnetic Resonance in Metallic Thin Films and Thin-Film Tubes. **2008**, 113, 179-182
- 173 Ferromagnetic Shape Memory Alloy Actuators. **2008**,
- 172 Performance of a Furnace for the High-field X-ray Diffraction Measurements at High Temperatures. **2009**, 33, 60-63
- 171 Study of Local Magnetism by Transmission Electron Microscopy. **2011**, 54, 256-263
- 170 Responses of electronic structure and magnetism to tetragonal distortion and their influence on pressure for the Heusler alloy Mn₂NiAl. **2011**, 60, 127502 3
- 169 Low temperature aging effect on structure, martensitic transformation and magnetic properties in ferromagnetic shape memory alloy of Mn₂NiGa. **2011**, 60, 077501 2
- 168 Room Temperature Magneto-caloric Effect in Fe Substituted Ni-Mn-Sn Alloy. 325-330
- 167 Ab initio Phonons in Magnetic Ni₂MnAl. **2011**, 50, 05FE07
- 166 Stress Wave Propagation in NiMnGa Ferromagnetic Shape Memory Alloys. **2011**, 50, 075801
- 165 High-Resolution Visualizing Techniques: Magnetic Aspects. **2012**, 151-176 1
- 164 A first principles study on Mn₂NiGa Heusler alloy. **2012**, 61, 213102 3
- 163 The influence of Cu on the magnetic and martensitic transformation properties of Ni₅₀Mn₃₆In₁₄. **2012**, 61, 108104 3
- 162 Effect of internal stress on structure, martensitic transformation and magnetic properties of ferromagnetic shape memory alloy Mn₂NiGa. **2012**, 61, 027501 2
- 161 Shape memory effect and superelasticity in single crystal Ni₅₄Fe₁₉Ga₂₇. **2012**, 61, 028103 3
- 160 Shape Memory NiTi Materials. **2012**, 185-219
- 159 Magnetic field-induced martensitic transformation, superspin glass and exchange bias in Heusler alloys NiCoMnSn. **2013**, 62, 147501 0
- 158 Bibliography. 359-375

157 Epitaxial Growth of Ni-Mn-Ga: Consequences of Magnetron Configuration on Martensitic Behavior. 281-286

156 X-Ray and High Resolution Transmission Electron Microscopy studies of Tetragonal Martensite of Ni-Mn-Ga Alloys. 627-631

155 Magnetic Transition in the Ferromagnetic State of Ni-Fe-Ga Single Crystals. 531-535

154 Stress-Temperature Phase Diagram of Ni₂MnGa. 95-97

153 Neutron Diffraction Study of Stress-Induced New Phase in Ni₂MnGa. 263-265

152 Effect of Co Content on Structural Transitions of Polycrystalline Co-Ni-Ga Ferromagnetic Shape Memory Alloy. 645-647

151 In-Situ Characterization of Stress-Induced Martensite and Related Magnetic Domain Structure in Ni-Fe-Ga Ferromagnetic Shape Memory Alloy Single Crystals. 246-254

150 Control of Crystallographic Domain by Magnetic Field in Ferromagnetic Shape Memory Alloys and an Antiferromagnetic CoO. 267-271

149 The Microstructure and Mechanical Properties of Magnetic Shape Memory Alloys NiCo_{40+x}Al_{30-x} [X=0? 3? 6? 10]. **2014**, 101-113

148 High Resolution Imaging Techniques for Understanding of Mesoscopic Phenomena. **2014**, 109-135

147 Intermittent Deformation Behavior in Epitaxial NiMnGa Films. **2015**, 83-89

146 Analysis and Modelling of Magnetic Circuits in Magnetic Shape Memory Alloy Actuators. **2015**, 137-145

145 Element-Specific Magnetic and Electronic Properties of Epitaxial Heusler Films. **2016**, 353-386

144 Werkstoffe im Vergleich und Verbund. **2016**, 357-389

143 Site preference in isoelectronic Heusler alloy Fe₂RuSi. **2016**, 65, 147102

5

142 Influences of Ga content on the structure and magnetic properties of Mn_{2-x}NiGa_{1+x} alloys. **2016**, 65, 048102

141 Influence of Annealing on Structure of a Surface of Films of Ni₂MnGa. **2016**, 38, 1179-1194

1

140 Recent Progress of Fundamental Studies and Developments on Shape Memory Alloys. **2017**, 56, 151-155

- 139 Simultaneous Measurement of Continuum Strain Field and Intermittent Martensite Band Nucleation in Single Crystal Ni-Mn-Ga Foils. **2017**, 161-171
- 138 Exchange Bias in Bulk Heusler Systems. **2017**, 301-330
- 137 Accuracy of Hysteresis Modeling in Smart Actuator with MSMA. **2018**, 743-752 1
- 136 Effect of Milling Speed on the Structural and Magnetic Properties of Ni₇₀Mn₃₀ Alloy Prepared by Planetary Ball Mill Method. **2018**, 28, 539-543 0
- 135 Werkstoffe im Vergleich und Verbund. **2019**, 375-407
- 134 Multifunctional behaviors in meta-magnetic shape-memory microwires. **2019**, 6, 784-785 0
- 133 Methods of pulsed local action on magnetic mechanical state of ferromagnetic shape memory alloy. 656, 012020
- 132 Phase Stability, Magnetic Properties, and Martensitic Transformations in Co-Based Heusler Alloys. 1-32 1
- 131 Effect of Twin Microstructure on the Magnetization Behaviour of NiMnGa Ferromagnetic Shape Memory Alloys. **2020**, 42, 307-315
- 130 Anomalous dependence of thermoelectric parameters on carrier concentration and electronic structure in Mn-substituted Fe₂CrAl Heusler alloy. 1-18 1
- 129 Structural, electronic, elastic, magnetic and thermodynamic properties of Mn₂LuZ (Z = B, Al, Ga and In) Heusler compounds: A first-principle study. **2021**, 121, 1
- 128 Energy Harvesting Using Magnetic Shape Memory Alloys. **2022**, 96-103
- 127 Giant 5.8% magnetic-field-induced strain in additive manufactured Ni-Mn-Ga magnetic shape memory alloy. **2022**, 208, 114324 1
- 126 Structural and magnetic property analysis of bulk and nanocrystalline Ni_{1.8}Mn_{1.2}Sn Heusler alloy. **2022**, 544, 168656 0
- 125 Additive Manufacturing from the Point of View of Materials Research. **2020**, 43-83
- 124 Spin glass behaviour: Magnetic, microstructural and exchange bias properties in Mn rich heusler alloy ribbons. **2020**,
- 123 Structural Disorder in Intermetallic Boride PrMTeB (M = Mn, Fe): A Transition Metal Cluster and Its Evil Twin. **2020**, 59, 2484-2494 1
- 122 Effect of Magnetic Field on the Damping Capability of Ni_{52.5}Mn_{23.7}Ga_{23.8}/Polymer Composites. **2021**, 101-107

- 121 Werkstoffe im Vergleich und Verbund. **2006**, 336-364
- 120 TEM characterization of microstructures in a Ni₂MnGa alloy. **2008**, 463-464
- 119 Magnetic and Electronic Properties of Heusler Alloy Films Investigated by X-Ray Magnetic Circular Dichroism. 171-182
- 118 Probing the martensite transition and thermoelectric properties of Co TaZ (Z = Si, Ge, Sn and x = 1, 2): a study based on density functional theory. **2020**, 33, 045402 ○
- 117 Metallic Magnetic Materials. **2021**, 693-808
- 116 The Ductility and Shape-Memory Properties of Ni₅₀Mn₄₀Co₁₀Cu Heusler Alloys. **2022**, 53, 359
- 115 Superelastic behavior and elastocaloric effect in a Ni_{51.5}Fe_{21.5}Ga_{27.0} ferromagnetic shape memory single crystal under compression. **2021**, 833, 142362 ○
- 114 Preparation and Properties of Bulk Magnetic Shape Memory Alloys. **2022**, 35-69
- 113 Robust evidence for the stabilization of the premartensite phase in Ni-Mn-In magnetic shape memory alloys by chemical pressure. **2021**, 5,
- 112 Martensitic transformation behavior and structural characteristics of annealed Ni-Mn-Sn-Fe-In Heusler alloy. **2021**, 2070, 012231 ○
- 111 An Overview on Magnetic Shape Memory Alloys. **2022**, 1-33 1
- 110 Effect of the Mn Amount on the Structural, Thermal, and Magnetic Properties of Rapidly Solidified (87-x)Cu-13Al-xMn (wt.%) Alloy Ribbons. 1 ○
- 109 Effects of Bi-doping on electronic structure and martensitic transformation in Ni₂MnGa and Mn₂NiGa MSMAs: A theoretical approach. **2021**, 168815
- 108 Magnetostriction and Magnetoelasticity. **2021**, 549-593
- 107 Structure, Phase Transformation and Properties of Large-Size Ferromagnetic Freestanding Ni-Mn-Ga Shape Memory Alloy Film. 1
- 106 Modeling the dynamic magneto-mechanical response of magnetic shape memory alloys based on Hamilton's principle: The governing equation system. **2022**, 160, 104761
- 105 Deformation twinning with different twin-boundary mobility in 2H martensite in Cu₅₀Ni₅₀Al shape memory alloy. **2022**, 226, 117598 ○
- 104 Compositional Dependence of Magnetocrystalline Anisotropy in Fe-, Co-, and Cu-Alloyed Ni-Mn-Ga. *Metals*, **2022**, 12, 133 2.3

- 103 Fabrication, structural and magnetic behavior of novel one-dimensional Fe₂MnGa nanostructures. **2022**, 549, 169022
- 102 Martensitic Transformation and Magnetocaloric Effect of Ni-Mn-In-Ga Ribbon. **2022**, 12, 47-53
- 101 Nano Scaled Checkerboards: A Long Range Ordering in NiCoMnAl Magnetic Shape Memory Alloy Thin Films with Martensitic Intercalations. **2022**, 12, 1748
- 100 An essential advancement of magnetic nanoparticles. **2022**, 41-63
- 99 Unraveling the Phase Stability and Physical Nature of Modulated Martensite in Ni₂Mn_{1.5}In_{0.5} Alloys by First-Principles Calculations.
- 98 Crystallographic Analysis and Mechanism of Thermoelastic Martensitic Transformation in Heusler Alloys with a Seven-Layer Martensite Structure. **2022**, 123, 25-31
- 97 Magnetic Shape Memory Alloys: Phenomenological Constitutive Modeling and Analysis. **2022**, 193-201
- 96 Recent Progress in Crystallographic Characterization, Magnetoresponse and Elastocaloric Effects of Ni-Mn-In-Based Heusler Alloys: A Review. **2022**, 9, 0
- 95 Possible quantum phase transition in partially Cu-doped ZrNi_{2-x}Cu_xGa Heusler alloys. *AIP Advances*, **2022**, 12, 035237 1.5
- 94 Cd-doping effects in NiMnIn: experiment and ab-initio study. **2022**, 55, 255001
- 93 Structure and magnetic properties of NiMnGa shape memory alloys. **2022**, 13, 015014 0
- 92 On the Impact of Additive Manufacturing Processes on the Microstructure and Magnetic Properties of CoNiGa Shape Memory Heusler Alloys. 2200069 3
- 91 Experimental Observations versus First-Principles Calculations for NiMnGa Ferromagnetic Shape Memory Alloys: A Review. 2100632 0
- 90 Microstructure, martensitic transformation and excellent shape memory effect of Ga-alloyed Cu-Al-Mn-Fe shape memory single crystal. **2022**, 100448 1
- 89 Engineering thermal hysteresis of ferromagnetic shape memory alloy sensory particles. **2022**, 213, 114619
- 88 Energy conversion in Ni-Mn-Ga with asymmetrical bias magnetic field. **2022**, 551, 169183 0
- 87 Dependence of martensite transformation temperature on magnetic field in Ni₂MnGa and Ni₂MnGa_{0.95}In_{0.05} single crystals. *Journal of Alloys and Compounds*, **2022**, 908, 164514 5.7 0
- 86 Design and Experiment of a Magnetic Shape Memory Alloy Actuator. **2021**,

85	Prediction study of magnetic stability, structural and electronic properties of Heusler compounds $Mn_{1-x}Z_xPt_2$ ($Z = V, Co$): DFT+U+TB-mBJ calculation. 2022 , 96, 1		
84	The effect of uniaxial stress on magneto-electronic properties and band Jahn-Teller distortion of Ni_2MnGa Heusler alloy: an ab initio study. 1-16		0
83	Numerical simulations on the high-frequency dynamic mechanical response of single-crystalline Ni_2MnGa samples. 2022 , 102, 674-697		1
82	Manufacturing Techniques of Magnetic Polymer Nanocomposites. 2022 , 1-16		
81	Detection of Structural Phase Transition in SMART Microwires Using Magneto-Impedance Sensing. 2022 , 169394		0
80	Effect of magnetic field on thermal strain, thermal expansion and negative thermal expansion property in a polycrystalline $Ni_{55}Mn_{18}Ga_{27}$ alloy. <i>Physica B: Condensed Matter</i> , 2022 , 638, 413933	2.8	0
79	Kinetics of Reordering in Quenched $Ni_2Mn_{0.8}Cu_{0.2}Ga$ Ferromagnetic Shape Memory Alloys. <i>Metals</i> , 2022 , 12, 738	2.3	0
78	Numerical analysis of the magnetic shape memory effect based on the absolute nodal coordinate formulation. <i>Acta Mechanica</i> , 1	2.1	0
77	Characterizing Changes in Grain Growth, Mechanical Properties, and Transformation Properties in Differently Sintered and Annealed Binder-Jet 3D Printed 14M Ni_2MnGa Magnetic Shape Memory Alloys. <i>Metals</i> , 2022 , 12, 724	2.3	0
76	Magnetoplasticity. <i>International Journal of Materials Research</i> , 2022 , 96, 703-709	0.5	
75	Structure and magnetic properties of $Ni_{50-x}Co_xMn_{50-y}Al_y$ ($x = 5 - 9, y = 18 - 19$) shape memory alloy ribbons. <i>Journal of Alloys and Compounds</i> , 2022 , 165470	5.7	2
74	Characterization Techniques for Shape-Memory Alloys. 2022 , 29-43		
73	Effective decoupling of ferromagnetic sublattices by frustration in Heusler alloys. <i>Physical Review B</i> , 2022 , 105,	3.3	1
72	Occupation preferences and impacts of interstitial H, C, N, and O on magnetism and phase stability of Ni_2MnGa magnetic shape memory alloys by first-principles calculations. <i>Journal of Applied Physics</i> , 2022 , 131, 205101	2.5	
71	Modeling and experimental investigation of energy harvesting based on magnetic shape memory alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128,	2.6	
70	Investigation of the complex magnetic behavior of $Ni_{46.86}Co_{2.91}Mn_{38.17}Sn_{12.06}$ (at %) magnetic shape memory alloy at low temperatures. <i>Physica Scripta</i> ,	2.6	
69	Design and Control of Magnetic Shape Memory Alloy Actuators. <i>Materials</i> , 2022 , 15, 4400	3.5	0
68	Unraveling the Phase Stability and Physical Property of Modulated Martensite in $Ni_2Mn_{1.5}In_{0.5}$ Alloys by First-Principles Calculations. <i>Materials</i> , 2022 , 15, 4032	3.5	0

67	Simultaneous improvement of magnetic-field-induced working temperature and mechanical properties in NiMnIn shape memory alloy. <i>AIP Advances</i> , 2022 , 12, 065107	1.5	0
66	Thermal processes of miniature thermomagnetic generators in resonant self-actuation mode. <i>IScience</i> , 2022 , 25, 104569	6.1	1
65	Role of antisite disorder in the martensitic transition of Ni ₂ Mn _{1+x} Ga. <i>Intermetallics</i> , 2022 , 148, 107613	3.5	0
64	Tunable Multifunctionality in Heusler Alloys by Extreme Conditions.		
63	B2-L10 thermoelastic transformation on Ni ₅₀ Mn ₂₉ Sb _{12.5} Co _{8.5} shape memory Heusler alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128,	2.6	
62	Long-distance polarizing microscope system combined with solenoid-type magnet for microscopy and simultaneous measurement of physical parameters. <i>Review of Scientific Instruments</i> , 2022 , 93, 073702 ¹⁷		
61	Shape memory effect and superelasticity of Ni ₅₀ Mn ₃₀ Ga ₂₀ porous alloy prepared by imitation casting method. <i>Intermetallics</i> , 2022 , 149, 107668	3.5	
60	Electromagnetic sensors for assessing and monitoring civil infrastructures. 2022 , 211-236		0
59	Review of MSM Actuators: Applications, Challenges, and Potential. 2022 , 10, 83841-83850		
58	Effects of doping, hydrostatic pressure, and thermal quenching on the phase transitions and magnetocaloric properties in Mn _{1-x} CoxNiGe. 2022 , 132, 045107		1
57	Theoretical formulism analyzing damping nature of the ferromagnetic shape memory alloy. 1-9		
56	Magnetic properties and possible martensitic transformation in equiatomic quaternary Heusler alloy CoMnNiSn. 2022 , 562, 169844		
55	Mechanical response during bending of NiMnGa-based melt-spun ribbons. 2022 , 57, 16923-16929		0
54	Fabrication and growth mechanism of one-dimensional Heusler alloy nanostructures with different morphologies on anodic aluminum oxide template by magnetron sputtering. 2022 , 16,		0
53	Materials challenges for SrRuO ₃ : From conventional to quantum electronics. 2022 , 10, 090902		0
52	Heusler Alloys: Past, Properties, New Alloys, And Prospects. 2022 , 101017		4
51	What is the speed limit of martensitic transformations?. 2022 , 23, 633-641		0
50	Enhanced magnetic properties and magnetic field induced strain in polycrystalline NiMnGa alloy by electron irradiation. 2022 , 563, 170010		0

49	Manufacturing Techniques of Magnetic Polymer Nanocomposites. 2022 , 303-318	0
48	Electronic Properties and Chemical Bonding in V ₂ FeSi and Fe ₂ VSi Heusler Alloys. 2022 , 12, 1546	1
47	Magneto-Structural Transition and Refrigeration Property in All-D-Metal Heusler Alloys: A Critical Review. 9 , 52-69	0
46	Elastocaloric Properties of Polycrystalline Samples of NiMnGaCu Ferromagnetic Shape Memory Alloy under Compression: Effect of Improvement of Thermoelastic Martensitic Transformation. 2022 , 15, 7123	0
45	Change on Tetragonality of L10 Phase With Homogenization Time on Ni ₅₀ Mn ₂₉ Sb ₂₁ Shape Memory Heusler Alloy.	0
44	On mechanical twinning in tetragonal lattice. 1-18	0
43	Martensitic Transformation, Magnetic and Mechanical Characteristics in Unidirectional NiMnSn Heusler Alloy. 2022 , 8, 136	0
42	Processing Effects on the Martensitic Transformation and Related Properties in the Ni ₅₅ Fe ₁₈ Nd ₂ Ga ₂₅ Ferromagnetic Shape Memory Alloy. 2022 , 12, 3667	0
41	Tunable anomalous Hall and Nernst effects in MMX compounds.	0
40	Laser powder bed fusion of (14M) Ni-Mn-Ga magnetic shape memory alloy lattices. 2022 , 60, 103231	0
39	¹¹⁹ Sn Mössbauer and magnetization studies of the Heusler alloy Ni ₂ Mn _{1.48} Sn _{0.52} . 2023 , 172, 111101	1
38	Effects of 1 at.% additions of Co, Fe, Cu, and Cr on the properties of Ni-Mn-Ga-based magnetic shape memory alloys. 2023 , 224, 115116	1
37	Phenomenological modeling for magneto-mechanical couplings of martensitic variant reorientation in ferromagnetic shape memory alloys. 2022 , 128,	0
36	Effect of Forming Process on Microstructure and Shape Memory Effect of Ni ₅₀ Mn ₃₄ In ₁₄ Co ₂ Alloy.	0
35	A Transverse Ising Model for the Fe _{50-x} Cr _{25+x} V ₂₅ Heusler Alloy. 2022 ,	0
34	Defect-characterized phase transition kinetics. 2022 , 9, 041311	0
33	Compatibility effect on stress-free two-way memory of Ni-Mn-Ga single crystal. 2022 , 168134	0
32	In a search for effective giant magnetoelectric coupling: Magnetically induced elastic resonance in Ni-Mn-Ga/P(VDF-TrFE) composites. 2022 , 29, 101682	1

31	Microstructural, crystallographic, and mechanical characteristics in Ni-Mn-Ga alloys directionally solidified under a transverse magnetic field. 2023 , 142, 10-21	0
30	Effects of nanoindentations on the martensitic transformation of Ni-Mn-Ga shape-memory Heusler films: A study by high-resolution imaging as a function of temperature. 2023 , 245, 118603	0
29	Physical property of a polycrystalline Ni _{53.5} Mn ₂₅ Ga ₂₁ Ta _{0.5} high-temperature shape memory alloy. 2023 , 288, 116148	0
28	Effect of extrusion on Ni _{55.5} Mn ₂₅ Ga _{18.5} Mo ₂ shape memory Heusler alloy. 2023 , 34, 105183	0
27	Shape Memory Alloys [Frontier Developments. 2022 ,	0
26	Localization versus delocalization of d-states within the $\text{Ni}_{1-x}\text{Mn}_x\text{Ga}$ Heusler alloy. 2022 , 12,	1
25	Correlation between Acoustic Emission and Stress Evolution during Single Twin Boundary Motion in NiMnGa Magnetic Shape Memory Single Crystal. 2200245	1
24	Impact of magnetic and antisite disorder on the vibrational densities of states in Ni ₂ MnSn Heusler alloys. 2022 , 106,	1
23	The influence of structure and local structural defects on the magnetic properties of cobalt nanofilms. 14, 23-33	0
22	A thermodynamically consistent lumped-element model for magnetic shape memory components. 1045389X2011362	
21	Reverse shape memory effect in Cu-Mn-Ga-Mo alloys. 2023 , 197, 112679	0
20	Anomalous mechanical behavior in NiMnGa alloy sintered through open die pressing method. 2023 , 34, 105391	0
19	Bi-doping engineering of Ni-Mn-Ga polycrystals and resulting grain particles for smart Ni-Mn-Ga/polymer composites. 2023 , 23, 131-142	0
18	Review of Magnetic Shape Memory Smart Materials. 2020 , 151-159	0
17	Ferromagnetic Martensitic Transition and Magnetocaloric Effect in Ni ₃₅ Co _{15-x} V _x Mn ₃₅ Ti ₁₅ (x = 1, 2, 3) All-d-Metal Heusler Alloy Ribbons.	0
16	Structure-property control of polycrystalline Ni-Mn-Ga by moderate Co-doping. 2023 , 944, 169184	0
15	Large exchange bias in Mn-Ni-Sn Heusler alloys: Role of cluster spin glass state. 2023 , 107,	0
14	Hyperfine fields and site occupation of the Fe atoms in the Mn _{1-x} Co _x FeGe giant magnetocaloric materials. 2023 , 574, 170697	0

- 13 Successive, overlapping transitions and magnetocaloric effect in Te doped Ni-Mn-Sn Heusler alloys. **2023**, 947, 169434 ○
- 12 Cubic and tetragonal phases competition of magnetic RuVZ(Si;Ge) Heusler compounds: ab initio investigation. **2023**, 366-367, 115161 ○
- 11 Atomic Site Occupations, Electronic Structures, Magnetic Properties and Martensitic Transformations in all-d-metal Heusler alloys Cd₂MnY (Y = Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt). **2023**, 114002 ○
- 10 Investigation of the martensite variant reorientation of the single crystal Ni-Mn-Ga alloy via training processes and a modification with a silicone rubber. **2023**, 297, 127390 ○
- 9 Martensitic Transformation and Magnetic Phase Transitions in Heusler Alloys with Cobalt Substituting for Nickel. **2022**, 123, 1156-1160 ○
- 8 Atomic scale understanding the periodic modulation in ferroelastic alloy Ni-Mn-Ti. **2023**, 248, 118768 ○
- 7 Transformation strain and volume effect associated with martensitic transformation in polycrystalline Ni₄₉₊Mn₂₃-Ga₂₈- Heusler alloys. **2023**, 364, 115124 ○
- 6 Investigation of the dynamical stability, electronic and thermoelectric properties of RhMnTiZ (Z=Si, Ge, Sn) Heusler compounds. **2023**, 364, 115122 ○
- 5 Intrinsic instability to martensite phases in ferromagnetic shape memory alloy Ni₂MnGa : Quasiparticle self-consistent GW investigation. **2023**, 7, ○
- 4 Effect of Acoustic Oscillations on Non-Equilibrium State of Magnetic Domain Structure in Cubic Ni₂MnGa Single Crystal. **2023**, 16, 2547 ○
- 3 Near room temperature martensitic transition in ductile Ni₅₀Mn₃₀Fe_xSn₂₀Sb_y (1 ≤ x ≤ 4 and 2 ≤ y ≤ 8) Heusler alloys. ○
- 2 Theoretical investigation on electronic structure, magnetism and martensitic transformation in Ni₂Mn_{1.5}Sc_{0.5} and Mn₂Ni_{1.5}Sc_{0.5} all-d-metal magnetic shape memory alloys. **2023**, 111404 ○
- 1 An investigation of the magnetic, mechanical, and kinetic characteristics of CuCrFeTiNi high entropy alloy by mechanical alloying and spark plasma sintering. **2023**, 958, 170347 ○