

Makoto Nagasako

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Atomic ordering and magnetic properties in the Ni ₄₅ Co ₅ Mn _{36.7} In _{13.3} metamagnetic shape memory alloy. Applied Physics Letters, 2008, 93, .	1.5	109
2	Magnetic properties of the half-metallic Heusler alloys $\text{Co}_{1-x}\text{Ni}_x$ under pressure. Physical Review B, 2010, 82, .	1.1	99
3	Refinement of lamellar structures in Ti-Al alloy. Acta Materialia, 2017, 125, 81-97.	3.8	78
4	Iron-based superelastic alloys with near-constant critical stress temperature dependence. Science, 2020, 369, 855-858.	6.0	77
5	Role of severe plastic deformation on the cyclic reversibility of a Ti _{50.3} Ni _{33.7} Pd ₁₆ high temperature shape memory alloy. Acta Materialia, 2010, 58, 6411-6420.	3.8	75
6	Microstructure and martensitic transformation in the Fe-Mn-Al-Ni shape memory alloy with B2-type coherent fine particles. Applied Physics Letters, 2012, 101, .	1.5	68
7	Martensitic transition, ferromagnetic transition, and their interplay in the shape memory alloys $\text{Ni}_{2-x}\text{Mn}_x$. Physical Review B, 2010, 82, .	1.1	67
8	Magnetic properties and phase diagram of Ni ₅₀ Mn _{50-x} Ga _x ferromagnetic shape memory alloys. Acta Materialia, 2013, 61, 6712-6723.	3.8	48
9	Shape memory behavior of high strength Ni ₅₄ Ti ₄₆ alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 66-70.	2.6	48
10	Cooling-induced shape memory effect and inverse temperature dependence of superelastic stress in Co ₂ Cr(Ga,Si) ferromagnetic Heusler alloys. Applied Physics Letters, 2013, 103, .	1.5	45
11	Multiple ferroic glasses via ordering. Acta Materialia, 2015, 101, 107-115.	3.8	45
12	Coherency of ordered L_{12} precipitates and thermoelastic martensitic transformation in FeNiCoAlTaB alloys. Journal of Alloys and Compounds, 2015, 628, 287-292.	2.8	42
13	Fatigue improvement of electron beam melting-fabricated biomedical Co-Cr-Mo alloy by accessible heat treatment. Materials Research Letters, 2018, 6, 93-99.	4.1	40
14	On microstructural homogenization and mechanical properties optimization of biomedical Co-Cr-Mo alloy additively manufactured by using electron beam melting. Additive Manufacturing, 2019, 28, 215-227.	1.7	38
15	Annealing temperature dependence of crystal structures and magnetic properties of Fe ₂ CrAl and Fe ₂ CrGa Heusler alloys. Journal of Alloys and Compounds, 2012, 528, 34-39.	2.8	33
16	Martensitic transformation and shape memory effect at high temperatures in off-stoichiometric Co ₂ VSi Heusler alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 191-196.	2.6	30
17	Effects of aging temperature and aging time on the mechanism of martensitic transformation in nickel-rich NiTi shape memory alloys. Materials Characterization, 2020, 159, 110034.	1.9	29
18	Martensitic transformation and superelasticity in off-stoichiometric Co ₂ Cr(AlSi) Heusler alloys. Journal of Alloys and Compounds, 2015, 642, 200-203.	2.8	28

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19	Positive and negative two-way shape memory effect in [111]-oriented Ni51Ti49 single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 42-53.	2.6	28
20	A jumping shape memory alloy under heat. <i>Scientific Reports</i> , 2016, 6, 21754.	1.6	23
21	Phase diagram of the ferromagnetic shape memory alloys $Ni_{2-x}MnGa$	1.1	22
22	Systematic study of structural, transport, and magnetic properties of $Ni_{52-x}Mn_{26}Al_{22}$ ($1 \leq x \leq 5$) melt-spun ribbons. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	21
23	Anomalous physical properties of Heusler-type $Co_{2-x}Cr_xMn_2(Ga,Si)$ alloys and thermodynamic study on reentrant martensitic transformation. <i>Physical Review B</i> , 2015, 91, .	1.1	21
24	Martensitic transformation and phase diagram in ternary Co-V-Ga Heusler alloys. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	21
25	Martensitic Transformation in NiCoMnSn Metamagnetic Shape Memory Alloy Powders. <i>Materials Transactions</i> , 2008, 49, 1915-1918.	0.4	19
26	Phase equilibria in the $Ni-Mn-In$ alloy system. <i>Journal of Alloys and Compounds</i> , 2013, 549, 57-63.	2.8	19
27	Magnetic Moment of Cu-Modified Ni_2MnGa Magnetic Shape Memory Alloys. <i>Metals</i> , 2013, 3, 114-122.	1.0	19
28	Phase equilibria and magnetic properties of Heusler-type ordered phases in the $Co-Mn-Ga$ ternary system. <i>Journal of Alloys and Compounds</i> , 2015, 645, 577-585.	2.8	18
29	Effects of aging on the shape memory and superelasticity behavior of ultra-high strength Ni 54 Ti 46 alloys under compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 678, 93-100.	2.6	18
30	Magnetic Phase Diagram of the Ferromagnetic Shape Memory Alloys $Ni_{2-x}MnGa_{1-x}Cu_x$. <i>Materials Science Forum</i> , 0, 684, 165-176.	0.3	15
31	Grain Refinement Mechanism and Evolution of Dislocation Structure of $Co-Cr-Mo$ Alloy Subjected to High-Pressure Torsion. <i>Materials Transactions</i> , 2016, 57, 1109-1118.	0.4	15
32	Sign reversal of transformation entropy change in $Co_2Cr(Ga,Si)$ shape memory alloys. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	15
33	Magnetic properties of Mn-rich Pd_2MnSn Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2010, 505, 29-33.	2.8	14
34	Liquid-immiscibility-induced formation of micron-scale crystalline/amorphous composite powder. <i>Intermetallics</i> , 2012, 25, 95-100.	1.8	14
35	Magnetic phase diagram of ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2014, 591, 280-285.	2.8	14
36	Atomic-resolution evaluation of microsegregation and degree of atomic order at antiphase boundaries in $Ni_{50}Mn_{20}In_{30}$ Heusler alloy. <i>Acta Materialia</i> , 2017, 122, 166-177.	3.8	14

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37	Atomic order and magnetization distribution in the half metallic and nearly half metallic $C1_{1-x}B_x$ compounds NiMnSb and PdMnSb. Journal of Physics Condensed Matter, 2010, 22, 206004.	0.7	12
38	Phase stability and magnetic properties of $Co_2(Ti_{1-x}Fe_x)Ga$ Heusler alloys. Scripta Materialia, 2008, 59, 830-833.	2.6	11
39	Phase transformations in the B2 phase of Co-rich $Co-Al$ binary alloys. Journal of Alloys and Compounds, 2011, 509, 2697-2702.	2.8	11
40	Flexible and Tough Superelastic $Co-Cr$ Alloys for Biomedical Applications. Advanced Materials, 2022, 34, e2202305.	11.1	11
41	Diffusionless phase transformation characteristics of $Mn_{75.7}Pt_{24.3}$. Journal of Alloys and Compounds, 2014, 589, 412-415.	2.8	10
42	Order-disorder transition of vacancies from the full- to the half-Heusler structure in $Ni_{2-x}MnSb$ alloys. Intermetallics, 2015, 61, 38-41.	1.8	10
43	Magnetic phase diagram of Heusler alloys $Pd_{2Mn_{1+x}Sn_{1-x}}$. Journal of Alloys and Compounds, 2013, 554, 335-339.	2.8	9
44	Martensitic transition of Mn-rich $Pd-Mn-Sn$ alloy. Journal of Alloys and Compounds, 2012, 541, 392-395.	2.8	8
45	PHASE STABILITY OF $L2_1$ PHASE IN Co -BASED HEUSLER ALLOYS. Spin, 2014, 04, 1440018.	0.6	6
46	Phase equilibria and magnetic properties in $Mn-Ga-Cu$ ternary alloys. Journal of Alloys and Compounds, 2014, 611, 284-291.	2.8	6
47	New layered perovskite family built from $[CeTa_2O_7]^{2+}$ layers: coloring mechanism from unique multi-transitions. Chemical Communications, 2020, 56, 8591-8594.	2.2	6
48	Martensitic and order-disorder transformations in $Ti_{45}Pd_{45}Ni_{10}$ alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 848-851.	2.6	5
49	Synthesis, crystal structure, and luminescence properties of a new nitride polymorph, $\hat{I}^2-Sr_{0.98}Eu_{0.02}AlSi_4N_7$. Journal of Solid State Chemistry, 2018, 258, 664-673.	1.4	5
50	Magnetic and martensitic transformation properties under ambient and hydrostatic pressures of $Ni_{50}Mn_{25.2}Fe_{2.8}Ga_{22}$ ferromagnetic shape memory alloy. Journal of Alloys and Compounds, 2019, 785, 484-490.	2.8	5
51	Phase equilibria in the Ni-Mn-Sb alloy system. Journal of Alloys and Compounds, 2019, 772, 64-71.	2.8	5
52	Synthesis and crystal structure of a new aluminum-silicon-nitride phosphor containing boron, $Ba_5B_2Al_4Si_{32}N_{52}:Eu$. Journal of Solid State Chemistry, 2017, 251, 43-49.	1.4	4
53	Phase transformations in Pd- and Ni-rich Ti-Pd-Ni alloys. European Physical Journal Special Topics, 2003, 112, 1043-1046.	0.2	3
54	Introducing dislocations locally in Al-supersaturated \hat{I}^2-Ti_3Al single crystal via nanoscale wedge indentation. Intermetallics, 2019, 113, 106557.	1.8	2

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55	Cellular microstructures superposed on martensite plates in Mn 55.2 Ga 19.0 Cu 25.8 alloy showing large coercivity. Scripta Materialia, 2017, 135, 33-36.	2.6	1
56	Synthesis, crystal structure, and photoluminescence of the new nitridoboroaluminosilicate phosphor (Sr _{0.93} Eu _{0.07}) ₁₁ B ₂ (Al _{0.275} Si _{0.725}) ₄ O _N ₅₉ . Journal of Solid State Chemistry, 2022, 312, 123222.	1.4	1
57	Site preference and magnetic properties of MnIn2$/\text{In}$CoGa heusler alloy. , 2015, , .		0
58	10.1063/1.4934878.1. , 2015, , .		0
59	Simultaneous Evaluation of Microsegregation and Degree of Atomic Ordering at Antiphase Boundaries in Ni₅₀Mn₂₀In₃₀ Heusler alloy. Materia Japan, 2019, 58, 95-95.	0.1	0