

Masaaki Futamoto

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ordered phase formation in Sm-Co _{1-x} Cu and Er-Co _{1-x} Cu alloy films prepared on Cr(100) single-crystal underlayer. Journal of Magnetism and Magnetic Materials, 2019, 482, 75-78.	2.3	0
2	Preparation of c-axis perpendicularly oriented ultra-thin L10-FePt films on MgO and VN underlayers. AIP Advances, 2018, 8, 056324.	1.3	4
3	Growth Mechanism of L_1 -Ordered FePt Epitaxial Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	0
4	Fe-Al alloy single-crystal thin film preparation for basic magnetic measurements. AIP Advances, 2018, 8, .	1.3	4
5	Structure and magnetic properties of Fe-Co-B alloy thin films prepared on cubic (001) single-crystal substrates. AIP Advances, 2018, 8, 047709.	1.3	0
6	Preparation of Er(Co,Cu) ₅ Alloy Thin Films on Cr(211) Underlayer. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
7	Influence of Stress and Strain on L_1 -Ordered Phase Formation in FePt Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
8	Enhancement of L10 ordering with the c-axis perpendicular to the substrate in FePt alloy film by using an epitaxial cap-layer. AIP Advances, 2017, 7, 056320.	1.3	8
9	Magnetostriction Behaviors of Ni _{100-x} Fe _x and Ni _{100-y} Co _y (001) Single-Crystal Films with fcc Structure under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
10	Formation of L_1 -FePt(001) Ultra-Thin Films With Flat Surfaces Using VC and VN Underlayers. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
11	Structure Analysis of Fe-Co and Fe-Co-B Alloy Thin Films Formed on MgO(001) Substrate. Journal of the Magnetics Society of Japan, 2017, 41, 99-107.	0.9	3
12	Durability Improvement of High-Resolution MFM Tips. , 2016, , .		0
13	Anisotropic FMR Linewidths in Epitaxially Grown Si-Doped L_2 -Fe Thin Films. Materials Transactions, 2016, 57, 1489-1493.	1.2	2
14	Enhanced Anisotropic FMR Linewidths Under Rotating Magnetic Fields in Fe-Si(001) Single-Crystal-Film Planes. , 2016, , .		0
15	Preparation of L_1 -CoPt/MgO/ L_1 -CoPt tri-layer film on Ru(0001) underlayer. AIP Advances, 2016, 6, .	1.3	3
16	Growth of L_1 -ordered crystal in FePt and FePd thin films on MgO(001) substrate. AIP Advances, 2016, 6, .	1.3	41
17	Effect of Oxidation Protection Layer on the Performance of Magnetic Force Microscope Tip. Journal of the Magnetics Society of Japan, 2016, 40, 45-50.	0.9	0
18	Influence of Composition on the Crystal Structure of Fe-Ni Alloy Epitaxial Thin Film Deposited on Cr(211) Underlayer. Journal of the Magnetics Society of Japan, 2016, 40, 137-147.	0.9	1

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19	Preparation of YCo ₅ and GdCo ₅ Ordered Alloy Epitaxial Thin Films on Cu(111) Underlayer. Journal of the Magnetics Society of Japan, 2016, 40, 132-136.	0.9	1
20	Spatial resolution and switching field of magnetic force microscope tips prepared by coating Fe/Co-Pt layers. AIP Advances, 2016, 6, .	1.3	8
21	Effect of Si/Fe Composition, Substrate Temperature, and Substrate Orientation on the Structure and Magnetic Properties of Fe-Si Alloy Film. Journal of the Magnetics Society of Japan, 2016, 40, 95-106.	0.9	0
22	Magnetostrictive behaviors of Fe-Al(001) single-crystal films under rotating magnetic fields. AIP Advances, 2016, 6, .	1.3	7
23	Enhancement of order degree and perpendicular magnetic anisotropy of L10 ordered Fe(Pt,Pd) alloy film by introducing a thin MgO cap-layer. Journal of Magnetism and Magnetic Materials, 2016, 410, 81-88.	2.3	3
24	A Study of the Origin of Large Positive Magnetostriction in Fe-B Single-Crystal Films. , 2016, , .		0
25	Influence of Film Thickness on the Structure and Magnetic Properties of FEPT and COPT Films Formed on MGO(001) Substrate. , 2016, , .		0
26	Effect of Magnetocrystalline Anisotropy on the Magnetostrictive Behavior of Fe-Si Single-Crystal Film. Journal of the Magnetics Society of Japan, 2015, 39, 181-185.	0.9	7
27	Influences of B/Fe Composition and Substrate Temperature on the Structure of Fe-B Alloy Film Formed on MgO(001) Substrate. Journal of the Magnetics Society of Japan, 2015, 39, 196-204.	0.9	2
28	Preparation and Structure Characterization of Sm-Ni Alloy Epitaxial Thin Films. Journal of the Magnetics Society of Japan, 2015, 39, 186-190.	0.9	0
29	Influence of Thickness on the Metastable Ordered Phase Formation in CoPt and Co ₃ Pt Alloy Films. Journal of the Magnetics Society of Japan, 2015, 39, 15-20.	0.9	0
30	Alignment of <i>c</i> -Axis Orientation Perpendicular to the Substrate Surface in FePt Alloy Thin Film with <i>L</i> ₁₀ Structure. Journal of the Magnetics Society of Japan, 2015, 39, 167-176.	0.9	6
31	Determination of Crystallographic Phase and Estimation of Order Degree for Rare Earth-Transition Metal Alloy Films with Hexagonal Structures. Journal of the Magnetics Society of Japan, 2015, 39, 205-212.	0.9	3
32	Crystal Orientation, Order Degree, and Surface Roughness of FePd-Alloy Film Formed on MgO(001) Substrate. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	10
33	bcc Phase Formation in Fe, Co, and Ni Thin Films Deposited on GaAs(110) Substrates. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
34	Magnetostrictive Behavior of FeB(001) Single-Crystal Films Under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
35	Magnetostrictive behaviors of Fe-Si(001) single-crystal films under rotating magnetic fields. Journal of Applied Physics, 2015, 117, 17A303.	2.5	4
36	Ordered phase formation in Co ₅₀ Pt ₅₀ -alloy single-layer and Co/Pt multilayer films epitaxially grown on MgO(111) substrates. Journal of Applied Physics, 2014, 115, 17C120.	2.5	4

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37	Sm(Co _{1-x} Ni) ₅ ordered alloy thin films formed on Cr(100) single-crystal underlayers. Journal of Applied Physics, 2014, 115, 17A759.	2.5	3
38	Magnetostrictive Behavior of Fe _{1-x} Si Single-Crystal Films With Different Orientations Under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
39	Relationship Between Magnetostriction and Magnetic Domain Structure in Fe-Based Alloy Single-Crystal Films With bcc(001) Orientation. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
40	Effect of Composition on the Ordered Phase Formation in Co-Pt Thin Film Deposited on MgO(111) Single-Crystal Substrate. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
41	Control of c -Axis Orientation of L_1_0 Ordered FePt, CoPt, and FePd Alloy Thin Films Deposited on MgO(001) Substrates. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
42	Structural Characterization of FePd, FePt, and CoPt Alloy Thin Films Epitaxially Grown on (001) Surface of Different Single-Crystal Materials. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	7
43	Effect of Substrate Temperature on the Ordered Phase Formation in Sm _{1-x} Ni Thin Film Deposited on Cu(111) Underlayer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
44	Accurate Estimation of c -Axis Distribution and Order Degree of L_1_0 Crystal in Magnetic Thin Film. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
45	Characterization of metastable crystal structure for Co-Pt alloy thin film by x-ray diffraction. Journal of Applied Physics, 2014, 115, .	2.5	8
46	Structural Characterization of Co Thin Film with bcc-Based A2 Structure Epitaxially Grown on GaAs(100) Single-Crystal Substrate. Journal of the Magnetics Society of Japan, 2014, 38, 185-193.	0.9	2
47	Improvement of Magnetic Force Microscope Resolution and Application to High-Density Recording Media. IEEE Transactions on Magnetics, 2013, 49, 2748-2754.	2.1	13
48	L_1_0 Ordered FePd, FePt, and CoPt Thin Films With Flat Surfaces Prepared on MgO(110) Single-Crystal Substrates. IEEE Transactions on Magnetics, 2013, 49, 3295-3298.	2.1	5
49	Effects of film composition and substrate orientation on the structure and the magnetic properties of Fe-Co-B alloy films formed on MgO single-crystal substrates. Journal of the Korean Physical Society, 2013, 63, 733-738.	0.7	4
50	Influence of crystallographic orientation on the magnetic properties of NiFe, Co, and Ni epitaxial fcc films grown on single-crystal substrates. Journal of the Korean Physical Society, 2013, 63, 778-783.	0.7	2
51	Formation of bcc-Ni thin film on GaAs(100) substrate and phase transformation from bcc to fcc. European Physical Journal B, 2013, 86, 1.	1.5	6
52	Metastable fcc-Fe film epitaxially grown on Cu(100) single-crystal underlayer. Journal of Applied Physics, 2013, 113, .	2.5	4
53	Preparation of L_1_0 ordered FePd, FePt, and CoPt thin films with flat surfaces on MgO(001) single-crystal substrates. EPJ Web of Conferences, 2013, 40, 07001.	0.3	7
54	Metastable Ordered Phase Formation in CoPt and Co ₃ Pt Alloy Thin Films Epitaxially Grown on Single-Crystal Substrates. IEICE Transactions on Electronics, 2013, E96.C, 1460-1468.	0.6	7

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55	Structure and Magnetic Properties of Co/Pd Multilayer Films Epitaxially Grown on Single-Crystal Substrates. IEICE Transactions on Electronics, 2013, E96.C, 1452-1459.	0.6	0
56	High-Resolution Magnetic Force Microscope Tip Coated with Co Film Prepared by Ultra-High Vacuum Evaporation. Journal of the Magnetism Society of Japan, 2013, 37, 231-234.	0.9	1
57	Magnetic Force Microscope Tips Prepared by Coating Sharp Si-Base Tips with Thin Co Films. Journal of the Magnetism Society of Japan, 2013, 37, 107-110.	0.9	3
58	Metastable Ordered Phase Formation in Co ₇₅ Pt ₂₅ -Alloy Thin Films. Journal of the Magnetism Society of Japan, 2013, 37, 179-182.	0.9	5
59	Preparation of FePd/MgO/FePd Tri-layer Film on SrTiO ₃ (001) Single-Crystal Substrate. Journal of the Magnetism Society of Japan, 2013, 37, 194-197.	0.9	1
60	Structure Characterization of FePd, FePt, and CoPt Alloy Thin Films Epitaxially Grown on SrTiO ₃ (001) Single-Crystal Substrates. Journal of the Magnetism Society of Japan, 2013, 37, 202-205.	0.9	4
61	Magnetostriction Behavior of Ni(001) Single-Crystal Films with Different Thicknesses under In-plane Rotating Magnetic Fields. Journal of the Magnetism Society of Japan, 2013, 37, 210-213.	0.9	2
62	Magnetic Force Microscope Tip with High Resolution and High Switching Field Prepared by Coating Si Tip with L11 Ordered CoPt-Alloy Film. Journal of the Magnetism Society of Japan, 2013, 37, 255-258.	0.9	9
63	Formation of Flat FePd-Alloy Epitaxial Thin Film with L10 Ordered Structure by Low-Temperature Deposition Followed by Annealing. Journal of the Magnetism Society of Japan, 2013, 37, 358-371.	0.9	5
64	L_{10} ordered phase formation in FePt, FePd, CoPt, and CoPd alloy thin films epitaxially grown on MgO(001) single-crystal substrates. Journal of Applied Physics, 2012, 111, .	2.5	73
65	Evaluation of Anisotropic Energy and g -Factor of Fe(001) and Fe-Co(001) Single-Crystal Thin Films Using Broadband Ferromagnetic Resonance. IEEE Transactions on Magnetics, 2012, 48, 4281-4284.	2.1	3
66	Influence of fcc Underlayer Facet on Microstructure of Co Thin Film. IEEE Transactions on Magnetics, 2012, 48, 3207-3210.	2.1	2
67	Surface Roughness Reduction in L_{10} Ordered FePd Alloy Thin Films Formed on MgO Single-Crystal Substrates with Different Orientations. IEEE Transactions on Magnetics, 2012, 48, 3203-3206.	2.1	15
68	Influence of magnetic material composition of Fe _{100-x} B _x coated tip on the spatial resolution of magnetic force microscopy. Journal of Applied Physics, 2012, 111, 07E339.	2.5	10
69	Structure and Magnetic Properties of CoPt, CoPd, FePt, and FePd Alloy Thin Films Formed on MgO(111) Substrates. IEEE Transactions on Magnetics, 2012, 48, 3595-3598.	2.1	34
70	Metastable bcc-Ni and bcc-NiFe Single-Crystal Films Prepared on GaAs Single-Crystal Substrates With Different Orientations. IEEE Transactions on Magnetics, 2012, 48, 1589-1592.	2.1	8
71	Thickness Effect on Magnetostriction of Fe and Fe ₉₈ B ₂ Thin Films. IEEE Transactions on Magnetics, 2012, 48, 1585-1588.	2.1	5
72	Preparation and characterization of Co single-crystal thin films with hcp, fcc and bcc structures. Journal of Applied Physics, 2011, 109, .	2.5	17

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73	Microstructure and Magnetic Properties of Fe and Fe-alloy Thin Films Epitaxially Grown on MgO(100) Substrates. Journal of Physics: Conference Series, 2011, 303, 012093.	0.4	5
74	Saturation magnetostriction measurements of magnetic thin films under high magnetic fields. Thin Solid Films, 2011, 519, 8429-8432.	1.8	19
75	Structural Analysis of MgO/Fe Bi-Layer Films Epitaxially Grown on GaAs Single-Crystal Substrates with Different Orientations. IEEE Transactions on Magnetics, 2011, 47, 3482-3485.	2.1	1
76	Structure and magnetic properties of FePd-alloy epitaxial thin films grown on MgO single-crystal substrates with different orientations. Journal of Applied Physics, 2011, 109, .	2.5	8
77	Microstructure of NiFe Epitaxial Thin Films Grown on MgO Single-Crystal Substrates. IEEE Transactions on Magnetics, 2010, 46, 345-348.	2.1	18
78	Structure and Magnetic Properties of CoNi Thin Films Epitaxially Grown on MgO(100) and SrTiO ₃ (100) Substrates. IEEE Transactions on Magnetics, 2010, 46, 349-352.	2.1	4
79	Preparation of hcp-NiFe(111) Thin Films on Au(100) Underlayers. IEEE Transactions on Magnetics, 2010, 46, 1947-1950.	2.1	5
80	Effects of fcc Noble Metal Underlayer and Substrate Temperature on the Formation of Ni(111) Epitaxial Thin Films. IEEE Transactions on Magnetics, 2010, 46, 1491-1494.	2.1	5
81	Epitaxial Growth of Co Thin Films on MgO Single-Crystal Substrates. Journal of the Magnetics Society of Japan, 2010, 34, 508-523.	0.9	15
82	Effects of substrate temperature and Cu underlayer thickness on the formation of SmCo ₅ (0001) epitaxial thin films. Journal of Applied Physics, 2010, 107, .	2.5	17
83	Preparation of SmNi ₅ and Sm(Ni,T) ₅ [T=Co,Fe] ordered alloy thin films on Cu(111) underlayers. Journal of Applied Physics, 2010, 107, 09A708.	2.5	1
84	Preparation and structural characterization of FeCo epitaxial thin films on insulating single-crystal substrates. Journal of Applied Physics, 2010, 107, 09A306.	2.5	8
85	Structural characterization of metastable hcp-Ni thin films epitaxially grown on Au(100) single-crystal underlayers. Journal of Applied Physics, 2010, 107, .	2.5	11
86	Microstructure and magnetic properties of FeCo epitaxial thin films grown on MgO single-crystal substrates. Journal of Applied Physics, 2009, 105, .	2.5	33
87	Preparation and Characterization of NiFe Epitaxial Thin Films Grown on MgO(100) and SrTiO ₃ (100) Single-Crystal Substrates. IEEE Transactions on Magnetics, 2009, 45, 2515-2518.	2.1	18
88	Epitaxial growth of Sm(Co,Cu) ₅ thin film on Al ₂ O ₃ (0001) single-crystal substrate. Journal of Crystal Growth, 2009, 311, 2251-2254.	1.5	21
89	Epitaxial growth of fcc-CoxNi _{100-x} thin films on MgO(110) single-crystal substrates. Journal of Applied Physics, 2009, 106, 123921.	2.5	10
90	Preparation and structure characterization of SmCo ₅ (0001) epitaxial thin films grown on Cu(111) underlayers. Journal of Applied Physics, 2009, 105, 07C315.	2.5	11

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91	Epitaxial growth of hcp/fcc Co bilayer films on Al ₂ O ₃ (0001) substrates. Journal of Applied Physics, 2008, 103, .	2.5	24
92	Compositional Structure and Magnetic Properties of CoCrPt-SiO_x Perpendicular Recording Medium. IEEE Transactions on Magnetics, 2008, 44, 3488-3491.	2.1	5
93	Effects of Co/Sm Composition on the Ordered Phase Formation in Sm-Co Thin Films Grown on Cu(111) Single-Crystal Underlayers. IEEE Transactions on Magnetics, 2008, 44, 2891-2894.	2.1	14
94	Microstructure and magnetic properties of Fe/ <i>X</i> (<i>X</i> = Au, Ag, Cu) multilayer films grown on MgO(001) substrates. Physica Status Solidi (B): Basic Research, 2007, 244, 4503-4506.	1.5	1
95	Microstructures of Co/Cr Bilayer Films Epitaxially Grown on MgO Single-Crystal Substrates. Japanese Journal of Applied Physics, 1995, 34, 2307-2311.	1.5	46