

# Masaaki Futamoto

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	<i>c</i> 1 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
2	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
3	Growth of <i>c</i> 1-ordered crystal in FePt and FePd thin films on MgO(001) substrate. AIP Advances, 2016, 6, .	1.3	41
4	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
5	Microstructure and magnetic properties of FeCo epitaxial thin films grown on MgO single-crystal substrates. Journal of Applied Physics, 2009, 105, .	2.5	33
6	Epitaxial growth of hcp/fcc Co bilayer films on Al <sub>2</sub> O <sub>3</sub> (0001) substrates. Journal of Applied Physics, 2008, 103, .	2.5	24
7	Epitaxial growth of Sm(Co,Cu) <sub>5</sub> thin film on Al <sub>2</sub> O <sub>3</sub> (0001) single-crystal substrate. Journal of Crystal Growth, 2009, 311, 2251-2254.	1.5	21
8	Saturation magnetostriction measurements of magnetic thin films under high magnetic fields. Thin Solid Films, 2011, 519, 8429-8432.	1.8	19
9	Preparation and Characterization of NiFe Epitaxial Thin Films Grown on MgO(100) and SrTiO <sub>3</sub> (100) Single-Crystal Substrates. IEEE Transactions on Magnetics, 2009, 45, 2515-2518.	2.1	18
10	Microstructure of NiFe Epitaxial Thin Films Grown on MgO Single-Crystal Substrates. IEEE Transactions on Magnetics, 2010, 46, 345-348.	2.1	18
11	Effects of substrate temperature and Cu underlayer thickness on the formation of SmCo <sub>5</sub> (0001) epitaxial thin films. Journal of Applied Physics, 2010, 107, .	2.5	17
12	Preparation and characterization of Co single-crystal thin films with hcp, fcc and bcc structures. Journal of Applied Physics, 2011, 109, .	2.5	17
13	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
14	Surface Roughness Reduction in <i>L</i> <sub>10</sub> 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
15	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
16	Improvement of Magnetic Force Microscope Resolution and Application to High-Density Recording Media. IEEE Transactions on Magnetics, 2013, 49, 2748-2754.	2.1	13
17	Preparation and structure characterization of SmCo <sub>5</sub> (0001) epitaxial thin films grown on Cu(111) underlayers. Journal of Applied Physics, 2009, 105, 07C315.	2.5	11
18	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

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19	Epitaxial growth of fcc-Co <sub>x</sub> Ni <sub>100-x</sub> thin films on MgO(110) single-crystal substrates. Journal of Applied Physics, 2009, 106, 123921.	2.5	10
20	Influence of magnetic material composition of Fe <sub>100-x</sub> B <sub>x</sub> coated tip on the spatial resolution of magnetic force microscopy. Journal of Applied Physics, 2012, 111, 07E339.	2.5	10
21	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
22	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 Magnetics Society of Japan, 2013, 37, 255-258.	0.9	9
23	Preparation and structural characterization of FeCo epitaxial thin films on insulating single-crystal substrates. Journal of Applied Physics, 2010, 107, 09A306.	2.5	8
24	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
25	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
26	Characterization of metastable crystal structure for Co-Pt alloy thin film by x-ray diffraction. Journal of Applied Physics, 2014, 115, .	2.5	8
27	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
28	Spatial resolution and switching field of magnetic force microscope tips prepared by coating Fe/Co-Pt layers. AIP Advances, 2016, 6, .	1.3	8
29	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
30	Preparation of L <sub>1</sub> 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
31	Metastable Ordered Phase Formation in CoPt and Co <sub>3</sub> Pt Alloy Thin Films Epitaxially Grown on Single-Crystal Substrates. IEICE Transactions on Electronics, 2013, E96.C, 1460-1468.	0.6	7
32	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
33	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
34	Magnetostrictive behaviors of Fe-Al(001) single-crystal films under rotating magnetic fields. AIP Advances, 2016, 6, .	1.3	7
35	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
36	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

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37	Control of $c$ -Axis Orientation of $L_1$ -Ordered FePt, CoPt, and FePd Alloy Thin Films Deposited on MgO(001) Substrates. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
38	Alignment of $c$ -Axis Orientation Perpendicular to the Substrate Surface in FePt Alloy Thin Film with $L_1$ Structure. Journal of the Magnetics Society of Japan, 2015, 39, 167-176.	0.9	6
39	Compositional Structure and Magnetic Properties of $\text{CoCrPt-SiO}_x$ Perpendicular Recording Medium. IEEE Transactions on Magnetics, 2008, 44, 3488-3491.	2.1	5
40	Preparation of hcp-NiFe $(11\bar{1}0)$ Thin Films on Au(100) Underlayers. IEEE Transactions on Magnetics, 2010, 46, 1947-1950.	2.1	5
41	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
42	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
43	Thickness Effect on Magnetostriction of Fe and Fe $_{98}$ B $_2$ Thin Films. IEEE Transactions on Magnetics, 2012, 48, 1585-1588.	2.1	5
44	$L_1$ 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
45	Metastable Ordered Phase Formation in Co $_{75}$ Pt $_{25}$ -Alloy Thin Films. Journal of the Magnetics Society of Japan, 2013, 37, 179-182.	0.9	5
46	Formation of Flat FePd-Alloy Epitaxial Thin Film with $L_{10}$ Ordered Structure by Low-Temperature Deposition Followed by Annealing. Journal of the Magnetics Society of Japan, 2013, 37, 358-371.	0.9	5
47	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
48	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
49	Metastable fcc-Fe film epitaxially grown on Cu(100) single-crystal underlayer. Journal of Applied Physics, 2013, 113, .	2.5	4
50	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
51	Magnetostrictive Behavior of Fe $\epsilon$ -Si Single-Crystal Films With Different Orientations Under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
52	Magnetostrictive behaviors of Fe-Si(001) single-crystal films under rotating magnetic fields. Journal of Applied Physics, 2015, 117, 17A303.	2.5	4
53	Preparation of $c$ -axis perpendicularly oriented ultra-thin $L_{10}$ -FePt films on MgO and VN underlayers. AIP Advances, 2018, 8, 056324.	1.3	4
54	Fe-Al alloy single-crystal thin film preparation for basic magnetic measurements. AIP Advances, 2018, 8, .	1.3	4

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55	Structure Characterization of FePd, FePt, and CoPt Alloy Thin Films Epitaxially Grown on SrTiO <sub>3</sub> (001) Single-Crystal Substrates. Journal of the Magnetics Society of Japan, 2013, 37, 202-205.	0.9	4
56	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
57	Sm(Co <sub>1-x</sub> Ni) <sub>x</sub> ordered alloy thin films formed on Cr(100) single-crystal underlayers. Journal of Applied Physics, 2014, 115, 17A759.	2.5	3
58	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
59	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
60	Preparation of $\text{L}_{11}$ -CoPt/MgO/ $\text{L}_{11}$ -CoPt tri-layer film on Ru(0001) underlayer. AIP Advances, 2016, 6, .	1.3	3
61	Enhancement of order degree and perpendicular magnetic anisotropy of $\text{L}_{10}$ 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
62	Magnetostriction Behaviors of Ni <sub>100-x</sub> Fe <sub>x</sub> and Ni <sub>100-y</sub> Co <sub>y</sub> (001) Single-Crystal Films with fcc Structure under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
63	Formation of $\text{L}_{10}$ -FePt(001) Ultra-Thin Films With Flat Surfaces Using VC and VN Underlayers. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
64	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
65	Magnetic Force Microscope Tips Prepared by Coating Sharp Si-Base Tips with Thin Co Films. Journal of the Magnetics Society of Japan, 2013, 37, 107-110.	0.9	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	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
68	Effect of Substrate Temperature on the Ordered Phase Formation in Sm <sup>2+</sup> Ni Thin Film Deposited on Cu(111) Underlayer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
69	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
70	Anisotropic FMR Linewidths in Epitaxially Grown Si-Doped $\text{L}_{10}$ -Fe Thin Films. Materials Transactions, 2016, 57, 1489-1493.	1.2	2
71	Magnetostriction Behavior of Ni(001) Single-Crystal Films with Different Thicknesses under In-plane Rotating Magnetic Fields. Journal of the Magnetics Society of Japan, 2013, 37, 210-213.	0.9	2
72	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

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73	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
74	Preparation of SmNi <sub>5</sub> and Sm(Ni,T) <sub>5</sub> [T=Co,Fe] ordered alloy thin films on Cu(111) underlayers. Journal of Applied Physics, 2010, 107, 09A708.	2.5	1
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	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
77	Magnetostrictive Behavior of Fe <sup>6</sup> B(001) Single-Crystal Films Under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
78	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
79	Preparation of YCo <sub>5</sub> and GdCo <sub>5</sub> Ordered Alloy Epitaxial Thin Films on Cu(111) Underlayer. Journal of the Magnetics Society of Japan, 2016, 40, 132-136.	0.9	1
80	Preparation of Er(Co,Cu) <sub>5</sub> Alloy Thin Films on Cr(211) Underlayer. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
81	Influence of Stress and Strain on $L_1_0$ -Ordered Phase Formation in FePt Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
82	High-Resolution Magnetic Force Microscope Tip Coated with Co Film Prepared by Ultra-High Vacuum Evaporation. Journal of the Magnetics Society of Japan, 2013, 37, 231-234.	0.9	1
83	Preparation of FePd/MgO/FePd Tri-layer Film on SrTiO <sub>3</sub> (001) Single-Crystal Substrate. Journal of the Magnetics Society of Japan, 2013, 37, 194-197.	0.9	1
84	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
85	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
86	Influence of Thickness on the Metastable Ordered Phase Formation in CoPt and Co <sub>3</sub> Pt Alloy Films. Journal of the Magnetics Society of Japan, 2015, 39, 15-20.	0.9	0
87	Durability Improvement of High-Resolution MFM Tips. , 2016, , .		0
88	Enhanced Anisotropic FMR Linewidths Under Rotating Magnetic Fields in Fe-Si(001) Single-Crystal-Film Planes. , 2016, , .		0
89	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
90	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

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91	Growth Mechanism of $L_{10}$ -Ordered FePt Epitaxial Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	0
92	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
93	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
94	A Study of the Origin of Large Positive Magnetostriction in Fe-B Single-Crystal Films. , 2016, , .		0
95	Influence of Film Thickness on the Structure and Magnetic Properties of FEPT and COPT Films Formed on MGO(001) Substrate. , 2016, , .		0