

Mitsuru Ohtake

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	$\langle 100 \rangle$ 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	Growth of $\langle 100 \rangle$ -ordered crystal in FePt and FePd thin films on MgO(001) substrate. AIP Advances, 2016, 6, .	1.3	41
3	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
4	Microstructure and magnetic properties of FeCo epitaxial thin films grown on MgO single-crystal substrates. Journal of Applied Physics, 2009, 105, .	2.5	33
5	Structure and Magnetic Properties of Co Epitaxial Thin Films Grown on MgO Single-Crystal Substrates. IEEE Transactions on Magnetics, 2009, 45, 2519-2522.	2.1	31
6	Epitaxial growth of hcp/fcc Co bilayer films on Al ₂ O ₃ (0001) substrates. Journal of Applied Physics, 2008, 103, .	2.5	24
7	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
8	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
9	Microstructure of NiFe Epitaxial Thin Films Grown on MgO Single-Crystal Substrates. IEEE Transactions on Magnetics, 2010, 46, 345-348.	2.1	18
10	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
11	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
12	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
13	Improvement of Magnetic Force Microscope Resolution and Application to High-Density Recording Media. IEEE Transactions on Magnetics, 2013, 49, 2748-2754.	2.1	13
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Preparation and structural characterization of FeCo epitaxial thin films on insulating single-crystal substrates. Journal of Applied Physics, 2010, 107, 09A306.	2.5	8
20	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
21	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
22	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
23	Spatial resolution and switching field of magnetic force microscope tips prepared by coating Fe/Co-Pt layers. AIP Advances, 2016, 6, .	1.3	8
24	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
25	Metastable Ordered Phase Formation in CoPt and Co₃Pt Alloy Thin Films Epitaxially Grown on Single-Crystal Substrates. IEICE Transactions on Electronics, 2013, E96.C, 1460-1468.	0.6	7
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	Magnetostrictive behaviors of Fe-Al(001) single-crystal films under rotating magnetic fields. AIP Advances, 2016, 6, .	1.3	7
28	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
29	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
30	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
31	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
32	Preparation of hcp-NiFe(11 ₂) Thin Films on Au(100) Underlayers. IEEE Transactions on Magnetics, 2010, 46, 1947-1950.	2.1	5
33	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
34	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
35	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
36	Formation of Flat FePd-Alloy Epitaxial Thin Film with L10 Ordered Structure by Low-Temperature Deposition Followed by Annealing. Journal of the Magnetics Society of Japan, 2013, 37, 358-371.	0.9	5

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37	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
38	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
39	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
40	Magnetostrictive Behavior of Fe-Si Single-Crystal Films With Different Orientations Under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
41	Magnetostrictive behaviors of Fe-Si(001) single-crystal films under rotating magnetic fields. Journal of Applied Physics, 2015, 117, 17A303.	2.5	4
42	Preparation of c-axis perpendicularly oriented ultra-thin L1 ₀ -FePt films on MgO and VN underlayers. AIP Advances, 2018, 8, 056324.	1.3	4
43	Fe-Al alloy single-crystal thin film preparation for basic magnetic measurements. AIP Advances, 2018, 8, .	1.3	4
44	Structure Characterization of FePd, FePt, and CoPt Alloy Thin Films Epitaxially Grown on SrTiO ₃ (001) Single-Crystal Substrates. Journal of the Magnetics Society of Japan, 2013, 37, 202-205.	0.9	4
45	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
46	Sm(Co _{1-x} Ni _x) ₅ ordered alloy thin films formed on Cr(100) single-crystal underlayers. Journal of Applied Physics, 2014, 115, 17A759.	2.5	3
47	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
48	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
49	Preparation of L ₁₁ -CoPt/MgO/L ₁₁ -CoPt tri-layer film on Ru(0001) underlayer. AIP Advances, 2016, 6, .	1.3	3
50	Enhancement of order degree and perpendicular magnetic anisotropy of 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
51	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
52	Formation of 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
53	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
54	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

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55	Influence of fcc Underlayer Facet on Microstructure of Co Thin Film. IEEE Transactions on Magnetics, 2012, 48, 3207-3210.	2.1	2
56	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
57	Effect of Substrate Temperature on the Ordered Phase Formation in Sm ²⁺ Ni Thin Film Deposited on Cu(111) Underlayer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
58	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
59	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
60	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
61	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
62	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
63	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
64	Accurate Estimation of <i>c</i> -Axis Distribution and Order Degree of $L1_0$ Crystal in Magnetic Thin Film. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
65	Magnetostrictive Behavior of Fe ²⁺ B(001) Single-Crystal Films Under Rotating Magnetic Fields. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
66	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
67	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
68	Preparation of Er(Co,Cu) ₅ Alloy Thin Films on Cr(211) Underlayer. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
69	Influence of Stress and Strain on $L1_0$ -Ordered Phase Formation in FePt Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
70	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
71	Preparation of FePd/MgO/FePd Tri-layer Film on SrTiO ₃ (001) Single-Crystal Substrate. Journal of the Magnetics Society of Japan, 2013, 37, 194-197.	0.9	1
72	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

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73	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
74	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
75	Durability Improvement of High-Resolution MFM Tips. , 2016, , .		0
76	Structure and Magnetic Properties of Sr _n Co ₅ , GdCo ₅ , and YCo ₅ Ordered Alloy Films Formed on Cr(100) and (211) Underlayers. , 2016, , .		0
77	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
78	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
79	Growth Mechanism of L_{10} -Ordered FePt Epitaxial Thin Film. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	0
80	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
81	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
82	A Study of the Origin of Large Positive Magnetostriction in Fe-B Single-Crystal Films. , 2016, , .		0
83	Influence of Film Thickness on the Structure and Magnetic Properties of FEPT and COPT Films Formed on MGO(001) Substrate. , 2016, , .		0