

Yasuo Ando

List of Publications by Year in descending order

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83
papers

2,136
citations

304743

22
h-index

233421

45
g-index

84
all docs

84
docs citations

84
times ranked

2018
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning Models for Magnetic Cardiography Edge Sensors Implementing Noise Processing and Diagnostics. IEEE Access, 2022, 10, 2656-2668.	4.2	8
2	Scalp attached tangential magnetoencephalography using tunnel magneto-resistive sensors. Scientific Reports, 2022, 12, 6106.	3.3	15
3	Guidelines for attaining optimal soft magnetic properties in FeAlSi films. Applied Physics Letters, 2022, 120, .	3.3	4
4	Serial MTJ-Based TMR Sensors in Bridge Configuration for Detection of Fractured Steel Bar in Magnetic Flux Leakage Testing. Sensors, 2021, 21, 668.	3.8	36
5	Tunnel magnetoresistance in magnetic tunnel junctions with FeAlSi electrode. AIP Advances, 2021, 11, .	1.3	3
6	Quadratic magnetoelectric effect during field cooling in sputter grown CrO_3 films. Physical Review Materials, 2021, 5, .	2.4	0
7	AI Aided Noise Processing of Spintronic Based IoT Sensor for Magnetocardiography Application. , 2020, , .		15
8	Detection of Small Magnetic Fields Using Serial Magnetic Tunnel Junctions with Various Geometrical Characteristics. Sensors, 2020, 20, 5704.	3.8	11
9	High-Temperature Magnetic Tunnel Junction Magnetometers Based on $\text{L1}_{0.5}\text{-PtMn}$ Pinned Layer. , 2020, 4, 1-4.		4
10	Large spin signals in $\text{n-Si/MgO/Co}_2\text{Fe}_{0.4}\text{Mn}_{0.6}\text{Si}$ lateral spin-valve devices. Journal of Applied Physics, 2020, 127, .	2.5	4
11	Scaling of quadratic and linear magneto-optic Kerr effect spectra with L21 ordering of Co_2MnSi Heusler compound. Applied Physics Letters, 2020, 116, .	3.3	5
12	Fabrication of soft-magnetic FeAlSi thin films with nm-order thickness for the free layer of magnetic tunnel junction based sensors. AIP Advances, 2020, 10, .	1.3	3
13	Controlling domain configuration of the sensing layer for magnetic tunneling junctions by using exchange bias. AIP Advances, 2020, 10, 025119.	1.3	2
14	Fabrication and evaluation of highly c-plane oriented Mn_3Sn thin films. AIP Advances, 2020, 10, 015310.	1.3	15
15	Efficiency of ultrafast optically induced spin transfer in Heusler compounds. Physical Review Research, 2020, 2, .	3.6	29
16	Controlled growth and magnetic property of a-plane-oriented Mn_3Sn thin films. AIP Advances, 2019, 9, 035109.	1.3	5
17	Improvement of Large Anomalous Hall Effect in Polycrystalline Antiferromagnetic Mn_{3+x}Sn Thin Films. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	15
18	Compositional Dependence of Exchange Anisotropy in $\text{Pt}_x\text{Mn}_{100-x}/\text{Co}_y\text{Fe}_{100-y}$ Films. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	4

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19	Composition dependence of the second-order interfacial magnetic anisotropy for MgO/CoFeB/Ta films. AIP Advances, 2019, 9, 125053.	1.3	3
20	Polycrystalline Co ₂ Fe _{0.4} Mn _{0.6} Si Heusler alloy thin films with high B ₂ ordering and small magnetic anisotropy for magnetic tunnel junction based sensors. AIP Advances, 2019, 9, 125036.	1.3	4
21	Investigation of a Magnetic Tunnel Junction Based Sensor for the Detection of Defects in Reinforced Concrete at High Lift-Off. Sensors, 2019, 19, 4718.	3.8	9
22	Effect of second-order magnetic anisotropy on nonlinearity of conductance in CoFeB/MgO/CoFeB magnetic tunnel junction for magnetic sensor devices. Scientific Reports, 2019, 9, 17018.	3.3	15
23	Realization of a Spin-Wave Switch Based on the Spin-Transfer-Torque Effect. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	3
24	Anomalous Hall effect in polycrystalline Mn ₃ Sn thin films. Applied Physics Letters, 2018, 113, .	3.3	50
25	Low magnetic damping and large negative anisotropic magnetoresistance in half-metallic Co ₂ xMn _{1-x} Si Heusler alloy films grown by molecular beam epitaxy. Applied Physics Letters, 2018, 112, .	3.3	20
26	Epitaxial L1 ₀ -MnAl Thin Films With High Perpendicular Magnetic Anisotropy and Small Surface Roughness. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	2
27	Grain-Size-Dependent Low-Temperature Electrical Resistivity of Polycrystalline Co ₂ MnAl Heusler Alloy Thin Films. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1577-1584.	1.8	4
28	L1 ₀ -ordered MnAl thin films with high perpendicular magnetic anisotropy. Japanese Journal of Applied Physics, 2017, 56, 0802A2.	1.5	18
29	Magnetic sensor based on serial magnetic tunnel junctions for highly sensitive detection of surface cracks. Journal of Applied Physics, 2017, 122, .	2.5	14
30	Micro-Focused Pulse Laser-Induced Propagating Spin Waves in Permalloy Films With Different Thicknesses. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9
31	Structural and Magnetic Properties in Mn ₂ VAl Full-Heusler Epitaxial Thin Films. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	4
32	Experimental Investigation of the Temperature-Dependent Magnon Density and Its Influence on Studies of Spin-Transfer-Torque-Driven Systems. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	4
33	Observation of Magnetoresistance Effect in $\text{Co}_2\text{Fe}_{0.4}\text{Mn}_{0.6}\text{Si}$ Heusler Alloy Electrodes. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
34	Influence of order parameter on Gilbert damping constants for FePd thin films investigated by means of time-resolved magneto-optical Kerr effect. Physical Review B, 2016, 94, .	3.2	28
35	Modification of the Interface Nanostructure and Magnetic Properties in Nd-Fe-B Thin Films. Nanoscale Research Letters, 2016, 11, 33.	5.7	12
36	Observation of single-spin transport in an island-shaped CoFeB double magnetic tunnel junction prepared by magnetron sputtering. Philosophical Magazine, 2016, 96, 310-319.	1.6	3

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37	Magnetic Tunnel Junctions With [Co/Pd]-Based Reference Layer and CoFeB Sensing Layer for Magnetic Sensor. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	14
38	Probing the electronic and spintronic properties of buried interfaces by extremely low energy photoemission spectroscopy. Scientific Reports, 2015, 5, 8537.	3.3	21
39	Engineered Heusler Ferrimagnets with a Large Perpendicular Magnetic Anisotropy. Materials, 2015, 8, 6531-6542.	2.9	6
40	Systematic Investigation on Correlation Between Sensitivity and Nonlinearity in Magnetic Tunnel Junction for Magnetic Sensor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	10
41	Spin-dependent transport behavior in C60 and Alq3 based spin valves with a magnetite electrode (invited). Journal of Applied Physics, 2014, 115, .	2.5	25
42	Mode change of vortex core oscillation induced by large direct current in 120nm sized current perpendicular-to-plane giant magnetoresistance devices with a perpendicular polarizer. Applied Physics Letters, 2014, 105, 052407.	3.3	2
43	Gilbert damping constants of Ta/CoFeB/MgO(Ta) thin films measured by optical detection of precessional magnetization dynamics. Physical Review B, 2014, 89, .	3.2	127
44	Penetration depth of transverse spin current in (001)-oriented epitaxial ferromagnetic films. Journal of Magnetism and Magnetic Materials, 2014, 368, 333-337.	2.3	1
45	Interface state and coercivity in Nd-Fe-B/Dy films. Journal of the Korean Physical Society, 2013, 63, 616-619.	0.7	1
46	Evaluation of interlayer exchange coupling in $\hat{1}\pm$ -Fe(100)/Nd ₂ Fe ₁₄ B(001) films. Journal of the Korean Physical Society, 2013, 63, 489-492.	0.7	18
47	Tunneling magnetoresistance effect in MnGa based perpendicular magnetic tunnel junction with Fe/Co interlayer. Journal of Applied Physics, 2013, 114, 163913.	2.5	3
48	Fabrication of L1 ₀ -Ordered MnAl Films for Observation of Tunnel Magnetoresistance Effect. Japanese Journal of Applied Physics, 2013, 52, 063003.	1.5	38
49	Dependence of spin-transfer switching characteristics in magnetic tunnel junctions with synthetic free layers on coupling strength. Journal of Applied Physics, 2012, 111, 07C905.	2.5	0
50	Fabrication of magnetic tunnel junctions with a bottom synthetic antiferro-coupled free layers for high sensitive magnetic field sensor devices. Journal of Applied Physics, 2012, 111, .	2.5	55
51	Fabrication of <i>L</i> ₁ -MnAl perpendicularly magnetized thin films for perpendicular magnetic tunnel junctions. Journal of Applied Physics, 2012, 111, .	2.5	64
52	Enhancement of magnetoresistance using CoFe/Ru/CoFe synthetic ferrimagnetic pinned layer in BiFeO ₃ based spin-valves. Applied Physics Letters, 2012, 101, 072901.	3.3	4
53	Magnetic Properties of Single Crystalline Co ₂ MnAl Heusler Alloy Thin Films. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2659-2663.	1.8	9
54	Effect of metallic Mg insertion on the magnetoresistance effect in MgO-based tunnel junctions using <i>D</i> ₂₂ -Mn ₃ $\hat{1}$ Ga perpendicularly magnetized spin polarizer. Journal of Applied Physics, 2011, 110, .	2.5	30

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55	Quadratic magneto-optical Kerr effect in Co ₂ MnSi. Journal of Applied Physics, 2011, 110, 043904.	2.5	18
56	Composition dependence of magnetoresistance effect and its annealing endurance in tunnel junctions having Mn-Ga electrode with high perpendicular magnetic anisotropy. Applied Physics Letters, 2011, 99, .	3.3	45
57	Interface effects on perpendicular magnetic anisotropy for molecular-capped cobalt ultrathin films. Applied Physics Letters, 2011, 99, 162509.	3.3	16
58	Exchange biases of Co, Py, Co ₄₀ Fe ₄₀ B ₂₀ , Co ₇₅ Fe ₂₅ , and Co ₅₀ Fe ₅₀ on epitaxial BiFeO ₃ films prepared by chemical solution deposition. Journal of Applied Physics, 2011, 109, .	2.5	28
59	Fabrication of Multiferroic Co-Substituted BiFeO ₃ Epitaxial Films on SrTiO ₃ (100) Substrates by Radio Frequency Magnetron Sputtering. Materials, 2011, 4, 1087-1095.	2.9	11
60	Structural characterization of epitaxial multiferroic BiFeO ₃ films grown on SrTiO ₃ (100) substrates by crystallizing amorphous Bi-Fe-Ox. Journal of the Ceramic Society of Japan, 2010, 118, 648-651.	1.1	3
61	Electrical transport properties of perpendicular magnetized Mn-Ga epitaxial films. Applied Physics Letters, 2010, 96, .	3.3	53
62	Reproducible trajectory on subnanosecond spin-torque magnetization switching under a zero-bias field for MgO-based ferromagnetic tunnel junctions. Applied Physics Letters, 2010, 96, 142502.	3.3	7
63	Structure, exchange stiffness, and magnetic anisotropy of Co ₂ MnAl _x Si _{1-x} Heusler compounds. Journal of Applied Physics, 2009, 106, .	2.5	42
64	Ferrimagnetism in epitaxially grown Mn ₂ VAl Heusler alloy investigated by means of soft x-ray magnetic circular dichroism. Applied Physics Letters, 2009, 95, 222503.	3.3	25
65	Fabrication of MgO-based magnetic tunnel junctions with CoCrPt perpendicularly magnetized electrodes. Journal of Applied Physics, 2009, 105, 07C911.	2.5	16
66	Tunnel magnetoresistance effect in double magnetic tunnel junctions using half-metallic Heusler alloy electrodes. Journal of Applied Physics, 2009, 105, 07C920.	2.5	4
67	Tunnel magnetoresistance effect in magnetic tunnel junctions using epitaxial Co ₂ FeSi Heusler alloy electrode. Journal of Applied Physics, 2009, 105, .	2.5	20
68	Reduction in switching current using a low-saturation magnetization Co _{0.5} Fe _{0.5} (Cr, V) _{0.5} B free layer in MgO-based magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, 07D117.	2.5	17
69	Structural, magnetic, and ferroelectric properties of multiferroic BiFeO ₃ -based composite films with exchange bias. Journal of Applied Physics, 2009, 105, 07D903.	2.5	11
70	Epitaxial Mn _{2.5} Ga thin films with giant perpendicular magnetic anisotropy for spintronic devices. Applied Physics Letters, 2009, 94, .	3.3	193
71	Silica coating of Co _{0.5} Pt alloy nanoparticles prepared in the presence of poly(vinylpyrrolidone). Journal of Nanoparticle Research, 2009, 11, 1787-1794.	1.9	11
72	Half-metallicity and Gilbert damping constant in Co ₂ FexMn _{1-x} Si Heusler alloys depending on the film composition. Applied Physics Letters, 2009, 94, .	3.3	214

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73	Large tunnel magnetoresistance in magnetic tunnel junctions using a Co ₂ MnSi Heusler alloy electrode and a MgO barrier. Applied Physics Letters, 2008, 93, .	3.3	249
74	Tunneling magnetoresistance of magnetic tunnel junctions using perpendicular magnetization L10-CoPt electrodes. Applied Physics Letters, 2008, 92, .	3.3	148
75	Spin transfer switching in the nanosecond regime for CoFeB/MgO/CoFeB ferromagnetic tunnel junctions. Journal of Applied Physics, 2008, 103, 103911.	2.5	40
76	Magnetic damping constant of Co ₂ FeSi Heusler alloy thin film. Journal of Applied Physics, 2007, 101, 09J501.	2.5	49
77	Tunneling spectroscopy in CoFeB/MgO/CoFeB magnetic tunnel junctions. Journal of Applied Physics, 2006, 99, 08A905.	2.5	15
78	Bias-voltage dependence of magnetoresistance in magnetic tunnel junctions grown on Al ₂ O ₃ (0001) substrates. Applied Physics Letters, 2005, 86, 102506.	3.3	13
79	Influence of diffusion of Fe atoms into the emissive layer of an organic light-emitting device on the luminescence properties. Journal of Applied Physics, 2005, 97, 10D501.	2.5	6
80	Fabrication of Co ₂ MnAl Heusler Alloy Epitaxial Film Using Cr Buffer Layer. Japanese Journal of Applied Physics, 2005, 44, 6535-6537.	1.5	68
81	Preparation of Functional Polymer LB film Assemblies. Journal of Japan Oil Chemists' Society, 1998, 47, 323-331,386.	0.3	0
82	Magnetic Properties of Polymer Lb Films Containing Ferrocene Derivatives. Molecular Crystals and Liquid Crystals, 1996, 286, 89-94.	0.3	2
83	Half-metallicity and Gilbert damping constant in Co ₂ FexMn _{1-x} Si Heusler alloys depending on the film composition. , 0, .		1