

Tomoya Nakatani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2198363/publications.pdf>

Version: 2024-02-01

53

papers

1,071

citations

394421

19

h-index

414414

32

g-index

54

all docs

54

docs citations

54

times ranked

833

citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial all-bcc-Co50Fe50/Cu/Co50Fe50 current-in-plane giant magnetoresistive spin-valves on Si(001) substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 551, 169454.	2.3	0
2	Study on FeCr thin film for a spintronic material with negative spin polarization. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 557, 169474.	2.3	4
3	Prediction of half-metallic gap formation and Fermi level position in Co-based Heusler alloy epitaxial thin films through anisotropic magnetoresistance effect. <i>Physical Review Materials</i> , 2022, 6, .	2.4	6
4	The effect of NiFeCr seed layer composition on the giant magnetoresistance properties of [FeCoNi/Cu] multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169562.	2.3	2
5	Elucidation of the strong effect of an interfacial monolayer on magnetoresistance in giant magnetoresistive devices with current perpendicular to the plane. <i>Physical Review B</i> , 2021, 103, .	3.2	8
6	Large linear sensitivity of asymmetric structured giant magnetoresistive device with metastable bcc-Cu spacer and auxiliary biquadratic coupling through Rh spacer. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255004.	2.8	3
7	Analysis of an all-in-plane spin-torque oscillator using injection locking to an external microwave magnetic field. <i>Applied Physics Express</i> , 2021, 14, 053001.	2.4	3
8	Effects of (Ni0.8Fe0.2)100â” <i>x</i> Cr <i>x</i> seed layer on microstructure, magnetic properties, and giant magnetoresistance of [FeCoNi/Cu] multilayer films. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	5
9	Systematic investigation of the effect of layer thickness on the linear sensing characteristics of asymmetric structured CoFe/Rh/CoFe/Cu/CoFe fully epitaxial CIP-GMR based magnetic sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 538, 168321.	2.3	3
10	Spin-scattering asymmetry at half-metallic-ferromagnet ferromagnet interface. <i>Physical Review B</i> , 2021, 104, .	3.2	1
11	Analysis method of a spin-torque oscillator using dc resistance change during injection locking to an external microwave magnetic field. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
12	Magnetic, magnetoresistive and low-frequency noise properties of tunnel magnetoresistance sensor devices with amorphous CoFeBTa soft magnetic layers. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 095002.	2.8	10
13	Analysis of a Spin-Torque Oscillator Using Injection Locking to an External Microwave Field. , 2021, , .	0	
14	Thickness dependence of degree of B2 order of polycrystalline Co2(Mn0.6Fe0.4)Ge Heusler alloy films measured by anomalous X-ray diffraction and its impacts on current-perpendicular-to-plane giant magnetoresistance properties. <i>Scripta Materialia</i> , 2020, 189, 63-66.	5.2	4
15	Microstructure, magnetic and transport properties of a Mn2CoAl Heusler compound. <i>Acta Materialia</i> , 2019, 176, 33-42.	7.9	35
16	Direct observation of magneto-Peltier effect in current-in-plane giant magnetoresistive spin valve. <i>Applied Physics Letters</i> , 2019, 115, 092406.	3.3	4
17	Optically detected ferromagnetic resonance in diverse ferromagnets via nitrogen vacancy centers in diamond. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	17
18	Band match enhanced current-in-plane giant magnetoresistance in epitaxial Co50Fe50/Cu multilayers with metastable bcc-Cu spacer. <i>APL Materials</i> , 2019, 7, .	5.1	13

#	ARTICLE	IF	CITATIONS
19	Improved current-perpendicular-to-plane giant magnetoresistance outputs by heterogeneous Ag-In:Mn-Zn-O nanocomposite spacer layer prepared from Ag-In-Zn-O precursor. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	4
20	Read sensor technology for ultrahigh density magnetic recording. <i>MRS Bulletin</i> , 2018, 43, 106-111.	3.5	26
21	Advanced CPP-GMR Spin-Valve Sensors for Narrow Reader Applications. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-11.	2.1	21
22	Enhancement of current-perpendicular-to-plane giant magnetoresistive outputs by improving B2-order in polycrystalline Co ₂ (Mn0.6Fe0.4)Ge Heusler alloy films with the insertion of amorphous CoFeBTa underlayer. <i>Acta Materialia</i> , 2018, 142, 49-57.	7.9	19
23	The microstructural origin of the enhanced current-perpendicular-to-the-plane giant magnetoresistance by Ag/In-Zn-O/Zn spacer layer. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	5
24	High magnetic field sensitivity in anti-ferromagnetically coupled 001-epitaxial [Co ₂ Fe(Al0.5Si0.5)/Ag]N multilayers. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	6
25	Analysis of magnetotransport properties and microstructure in current-perpendicular-to-plane pseudo spin-valves using Co ₂ Fe(Ga0.5Ge0.5) Heusler alloy and Ag/Mg-Ti-O/Ag-based spacer. <i>Journal of Applied Physics</i> , 2018, 123, 233903.	2.5	1
26	Enhancement of current-perpendicular-to-plane giant magnetoresistance by insertion of amorphous ferromagnetic underlayer in Heusler alloy-based spin-valve structures. <i>Applied Physics Express</i> , 2017, 10, 013006.	2.4	18
27	Layer thickness effects and microstructure of CPP-GMR spin-valves with Ag/InZnO/Zn conductive oxide-based spacer layers. , 2017, ,.		2
28	Enhanced CPP-GMR effect by improved B2-order of Co₂(Mn_{0.6}Fe_{0.4})Ge Heusler layer deposited on amorphous CoFeBTa underlayer: A quantitative estimation of site-disordering by anomalous x-ray diffraction. , 2017, ,.		1
29	Temperature-dependence of current-perpendicular-to-the-plane giant magnetoresistance spin-valves using Co ₂ (Mn _{1-x} Fe _x)Ge Heusler alloys. <i>Journal of Applied Physics</i> , 2016, 119, 153903.	2.5	13
30	High signal output in current-perpendicular-to-the-plane giant magnetoresistance sensors using In-Zn-O-based spacer layers. <i>Applied Physics Express</i> , 2015, 8, 093003.	2.4	19
31	Current-perpendicular-to-the-plane giant magnetoresistance in spin-valves with AgSn alloy spacers. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	19
32	Current-perpendicular-to-the-plane magnetoresistance from large interfacial spin-dependent scattering between Co ₅₀ Fe ₅₀ magnetic layer and In-Zn-O conductive oxide spacer layer. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	8
33	Polycrystalline current-perpendicular-to-plane giant magnetoresistance pseudo spin-valves using Co ₂ Mn(Ga0.25Ge0.75) Heusler alloy. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	6
34	Temperature dependence of magnetoresistive output of pseudo spin valves with Co ₂ Fe(Al _{1-x} Si _x)Heusler alloys and a Ag spacer. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	12
35	Study on CPP-GMR with Heusler Alloys for Magnetic Read Sensors of Hard Disk Drives. <i>Materia Japan</i> , 2013, 52, 99-107.	0.1	0
36	<math display="block">\text{Co NMR} experiment as a probe of electron doping in Co <math display="block">\text{FeAl} <math display="block">\text{FeAl}	3.2	21

#	ARTICLE	IF	CITATIONS
37	Co-Based Heusler Alloys for CPP-GMR Spin-Valves With Large Magnetoresistive Outputs. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1751-1757.	2.1	44
38	Large magnetoresistance in current-perpendicular-to-plane pseudospin valve using a Co ₂ Fe(Ge0.5Ga0.5) Heusler alloy. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	99
39	Oscillatory antiferromagnetic interlayer exchange coupling in Co ₂ Fe(Al0.5Si0.5)/Ag/Co ₂ Fe(Al0.5Si0.5) films and its application to trilayer magnetoresistive sensor. <i>Applied Physics Letters</i> , 2011, 99, ..	3.3	19
40	Interfacial resistance and spin-dependent scattering in the current-perpendicular-to-plane giant magnetoresistance using Co ₂ Fe(Al0.5Si0.5) Heusler alloy and Ag. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	27
41	Enhancement of current-perpendicular-to-plane giant magnetoresistance by insertion of Co ₅₀ Fe ₅₀ layers at the Co ₂ Mn(Ga0.5Sn0.5)/Ag interface. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	12
42	The effect of substitution of Fe with Cr on the giant magnetoresistance of current-perpendicular-to-plane spin valves with Co ₂ FeSi Heusler alloy. <i>Journal of Applied Physics</i> , 2011, 109, 043901-043901-6.	2.5	10
43	Structural characterizations of Co ₂ MnSi/MgO/Co ₂ MnSi magnetic tunnel junctions by transmission electron microscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 357-361.	2.3	13
44	Structure and transport properties of current-perpendicular-to-plane spin valves using Co ₂ FeAl0.5Si0.5 and Co ₂ MnSi Heusler alloy electrodes. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	31
45	Bulk and interfacial scatterings in current-perpendicular-to-plane giant magnetoresistance with Co ₂ Fe(Al0.5Si0.5) Heusler alloy layers and Ag spacer. <i>Applied Physics Letters</i> , 2010, 96, ..	3.3	143
46	Current-perpendicular-to-plane spin valves with a Co ₂ Mn(Ga0.5Sn0.5) Heusler alloy. <i>Journal of Applied Physics</i> , 2010, 108, 093916.	2.5	23
47	Spin-polarized tunneling spectroscopy of fully epitaxial magnetic tunnel junctions using $\text{Co}_{2-\text{x}}\text{Cr}_{\text{x}}$ Heusler alloy e. <i>Physical Review B</i> , 2009, 79, .	3.2	42
48	Current-perpendicular-to-plane giant magnetoresistance of a spin valve using Co ₂ MnSi Heusler alloy electrodes. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	46
49	Spin polarization of Co ₂ Fe alloys estimated by point contact Andreev reflection and tunneling magnetoresistance. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	19
50	The effect of iron addition on the spin polarization and magnetic properties of Co ₂ CrGa Heusler alloy. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 225002.	2.8	18
51	Effect of Cr substitution for Fe on the spin polarization of Co ₂ Cr _x Fe _{1-x} Si Heusler alloys. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	35
52	Structure, magnetic property, and spin polarization of Co ₂ FeAl _x Si _{1-x} Heusler alloys. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	162
53	Analysis of current-in-plane giant magnetoresistance using Co ₂ FeAl0.5Si0.5 half-metallic Heusler alloy. <i>Journal Physics D: Applied Physics</i> , 0, ..	2.8	1