

Kentaro Toyoki

List of Publications by Year in descending order

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40
papers

600
citations

623734

14
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610901

24
g-index

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all docs

40
docs citations

40
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetoelectric switching of perpendicular exchange bias in Pt/Co/ Cr_2O_3 /Pt stacked films. Applied Physics Letters, 2015, 106, .	3.3	74
2	Electric-field-induced changes of magnetic moments and magnetocrystalline anisotropy in ultrathin cobalt films. Physical Review B, 2017, 96, .	3.2	48
3	Switching of perpendicular exchange bias in Pt/Co/Pt/ Cr_2O_3 /Pt layered structure using magneto-electric effect. Journal of Applied Physics, 2015, 117, 17D902.	2.5	42
4	Equilibrium surface magnetization of Cr_2O_3 studied through interfacial chromium magnetization in Co/ Cr_2O_3 layered structures. Applied Physics Express, 2014, 7, 114201.	2.4	41
5	Realization of a scanning soft X-ray microscope for magnetic imaging under high magnetic fields. Journal of Synchrotron Radiation, 2018, 25, 1444-1449.	2.4	35
6	Simultaneous achievement of high perpendicular exchange bias and low coercivity by controlling ferromagnetic/antiferromagnetic interfacial magnetic anisotropy. Journal of Applied Physics, 2017, 121, .	2.5	34
7	Temperature dependence of the crystal structures and phase fractions of secondary phases in a Nd-Fe-B sintered magnet. Acta Materialia, 2018, 154, 25-32.	7.9	33
8	Temperature dependent magnetization reversal process of a Ga-doped Nd-Fe-B sintered magnet based on first-order reversal curve analysis. Acta Materialia, 2019, 178, 90-98.	7.9	26
9	First-order reversal curve analysis of a Nd-Fe-B sintered magnet with soft X-ray magnetic circular dichroism microscopy. Acta Materialia, 2019, 162, 1-9.	7.9	26
10	Relationship between the microstructure, local magnetism and coercivity in Ga-containing Nd-Fe-B sintered magnets. Acta Materialia, 2021, 205, 116517.	7.9	24
11	Unmasking the interior magnetic domain structure and evolution in Nd-Fe-B sintered magnets through high-field magnetic imaging of the fractured surface. Physical Review Materials, 2018, 2, .	2.4	23
12	Direct observations of ferromagnetic and antiferromagnetic domains in Pt/Co/Cr O_3 /Pt perpendicular exchange biased film. AIMS Materials Science, 2015, 2, 484-496.	1.4	21
13	High-Temperature Regeneration of Perpendicular Exchange Bias in a Pt/Co/Pt/ Cr_2O_3 /Pt Thin Film System. Applied Physics Express, 2013, 6, 123004.	2.4	18
14	Observation of the magnetoelectric reversal process of the antiferromagnetic domain. Applied Physics Letters, 2018, 113, 242404.	3.3	17
15	Magnetoelectric control of antiferromagnetic domain state in Cr_2O_3 thin film. Journal of Physics Condensed Matter, 2021, 33, 243001.	1.8	14
16	Quantitative identification of constituent phases in a Nd-Fe-B-Cu sintered magnet and temperature dependent change of electron density of Nd $_2$ Fe $_{14}$ B studied by synchrotron X-ray diffraction. Acta Materialia, 2019, 181, 530-536.	7.9	13
17	Inserted metals for low-energy magnetoelectric switching in a Cr_2O_3 /ferromagnet interfacial exchange-biased thin film system. Journal of Materials Chemistry C, 2018, 6, 2962-2969.	5.5	12
18	Manipulation of Antiferromagnetic Spin Using Tunable Parasitic Magnetization in Magnetoelectric Antiferromagnet. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800366.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Antiferromagnetic domain wall creep driven by magnetoelectric effect. <i>APL Materials</i> , 2018, 6, 121104.	5.1	9
20	Characterization of the magnetic moments of ultrathin Fe film in an external electric field via high-precision X-ray magnetic circular dichroism spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 060304.	1.5	8
21	Realization of magnetoelectric effect in 50-nm-thick Cr ₂ O ₃ thin film. <i>Applied Physics Express</i> , 2020, 13, 043003.	2.4	7
22	Strain-induced modulation of temperature characteristics in ferrimagnetic Tb-Fe films. <i>Scientific Reports</i> , 2021, 11, 6237.	3.3	7
23	Magnetoelectric Induced Switching of Perpendicular Exchange Bias Using 30-nm-Thick Cr ₂ O ₃ Thin Film. <i>Magnetochemistry</i> , 2021, 7, 36.	2.4	6
24	Voltage-controlled magnetic anisotropy in an ultrathin nickel film studied by <i>in operando</i> x-ray magnetic circular dichroism spectroscopy. <i>Physical Review B</i> , 2020, 102, .	3.2	5
25	Magnetic-field and temperature dependence of anomalous Hall effect in Pt/Cr ₂ O ₃ /Pt trilayer. <i>AIP Advances</i> , 2022, 12, .	1.3	5
26	Electric field effect on magnetism in a MgO/Pd/Co system with a solid-state capacitor structure. <i>AIP Advances</i> , 2018, 8, 115122.	1.3	4
27	Microscopic origin of large perpendicular magnetic anisotropy in an FeIr/MgO system. <i>Physical Review B</i> , 2019, 99, .	3.2	4
28	Influence of magnetostriction on the lattice constants of the secondary phases in Nd-Fe-B sintered magnets studied by synchrotron X-ray diffraction. <i>AIP Advances</i> , 2019, 9, .	1.3	4
29	Magnetization manipulation induced by nonlocal spin injection from a perpendicular spin polarizer: nano-beam X-ray MCD study using an order-sorting-aperture collection method. <i>Applied Physics Express</i> , 2020, 13, 043002.	2.4	4
30	Magnetic Properties and Magnetic Domain Observation of Nd-Fe-B Sintered Magnets Treated by Grain Boundary Diffusion Process with Dy-Al Co-Sorption. <i>Materials Transactions</i> , 2021, 62, 1216-1224.	1.2	4
31	Temperature lag with the onset of exchange bias, superparamagnetic blocking, and antiferromagnetic ordering in ultrathin ferromagnet/antiferromagnet thin film. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	4
32	Magnetic domain wall energy in Ni/Co superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 372, 41-46.	2.3	3
33	Detection of Spin Transfer from Metal to Molecule by Magnetoresistance Measurement. <i>Nano Letters</i> , 2020, 20, 75-80.	9.1	3
34	Time-resolved imaging of an operating hard-disk-drive write head using nano-beam x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2020, 128, 133903.	2.5	3
35	Orbital-dependent electric field effect on magnetism in ultrathin cobalt. <i>Physical Review B</i> , 2020, 102, .	3.2	3
36	Robust magnetic domain of Pt/Co/Au/Cr ₂ O ₃ /Pt stacked films with a perpendicular exchange bias. <i>Journal of Applied Physics</i> , 2020, 127, 153902.	2.5	3

#	ARTICLE	IF	CITATIONS
37	Critical behavior of perpendicular exchange bias in Ru/Pd/Co/Pt/Cr ₂ O ₃ /Pd stacked films. Physica B: Condensed Matter, 2020, 583, 412053.	2.7	1
38	Low pressure drive of the domain wall in Pt/Co/Au/Cr ₂ O ₃ /Pt thin films by the magnetoelectric effect. Applied Physics Letters, 2022, 120, 092404.	3.3	1
39	Synthesis of superparamagnetic Co@Pt nanoparticle in Pyrococcus furiosus virus-like particle crystal. Journal of Physics and Chemistry of Solids, 2022, 169, 110840.	4.0	1
40	Dominant carrier of pseudo-gap antiferromagnet Cr ₃ Al thin film. Physica B: Condensed Matter, 2021, 620, 413281.	2.7	0