

Kentaro Toyoki

List of Publications by Year in descending order

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40
papers

600
citations

623734

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all docs

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docs citations

40
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Magnetic-field and temperature dependence of anomalous Hall effect in Pt/Cr ₂ O ₃ /Pt trilayer. AIP Advances, 2022, 12, .	1.3	5
3	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
4	Relationship between the microstructure, local magnetism and coercivity in Ga-containing Nd-Fe-B sintered magnets. Acta Materialia, 2021, 205, 116517.	7.9	24
5	Strain-induced modulation of temperature characteristics in ferrimagnetic Tb@Fe films. Scientific Reports, 2021, 11, 6237.	3.3	7
6	Magnetoelectric Induced Switching of Perpendicular Exchange Bias Using 30-nm-Thick Cr ₂ O ₃ Thin Film. Magnetochemistry, 2021, 7, 36.	2.4	6
7	Magnetoelectric control of antiferromagnetic domain state in Cr ₂ O ₃ thin film. Journal of Physics Condensed Matter, 2021, 33, 243001.	1.8	14
8	Magnetic Properties and Magnetic Domain Observation of Nd@Fe@B Sintered Magnets Treated by Grain Boundary Diffusion Process with Dy@Al Co-Sorption. Materials Transactions, 2021, 62, 1216-1224.	1.2	4
9	Dominant carrier of pseudo-gap antiferromagnet Cr ₃ Al thin film. Physica B: Condensed Matter, 2021, 620, 413281.	2.7	0
10	Temperature lag with the onset of exchange bias, superparamagnetic blocking, and antiferromagnetic ordering in ultrathin ferromagnet/antiferromagnet thin film. Journal of Applied Physics, 2021, 130, .	2.5	4
11	Detection of Spin Transfer from Metal to Molecule by Magnetoresistance Measurement. Nano Letters, 2020, 20, 75-80.	9.1	3
12	Time-resolved imaging of an operating hard-disk-drive write head using nano-beam x-ray magnetic circular dichroism. Journal of Applied Physics, 2020, 128, 133903.	2.5	3
13	Voltage-controlled magnetic anisotropy in an ultrathin nickel film studied by <i>operando</i> x-ray magnetic circular dichroism spectroscopy. Physical Review B, 2020, 102, .	3.2	5
14	Orbital-dependent electric field effect on magnetism in ultrathin cobalt. Physical Review B, 2020, 102, .	3.2	3
15	Robust magnetic domain of Pt/Co/Au/Cr ₂ O ₃ /Pt stacked films with a perpendicular exchange bias. Journal of Applied Physics, 2020, 127, 153902.	2.5	3
16	Realization of magnetoelectric effect in 50-nm-thick Cr ₂ O ₃ thin film. Applied Physics Express, 2020, 13, 043003.	2.4	7
17	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
18	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. Applied Physics Express, 2020, 13, 043002.	2.4	4

#	ARTICLE	IF	CITATIONS
19	Temperature dependent magnetization reversal process of a Ga-doped Nd-Fe-B sintered magnet based on first-order reversal curve analysis. <i>Acta Materialia</i> , 2019, 178, 90-98.	7.9	26
20	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. <i>Acta Materialia</i> , 2019, 181, 530-536.	7.9	13
21	Microscopic origin of large perpendicular magnetic anisotropy in an Fe ₁ /MgO system. <i>Physical Review B</i> , 2019, 99, .	3.2	4
22	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
23	First-order reversal curve analysis of a Nd-Fe-B sintered magnet with soft X-ray magnetic circular dichroism microscopy. <i>Acta Materialia</i> , 2019, 162, 1-9.	7.9	26
24	Inserted metals for low-energy magnetoelectric switching in a Cr ₂ O ₃ /ferromagnet interfacial exchange-biased thin film system. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2962-2969.	5.5	12
25	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
26	Antiferromagnetic domain wall creep driven by magnetoelectric effect. <i>APL Materials</i> , 2018, 6, 121104.	5.1	9
27	Observation of the magnetoelectric reversal process of the antiferromagnetic domain. <i>Applied Physics Letters</i> , 2018, 113, 242404.	3.3	17
28	Manipulation of Antiferromagnetic Spin Using Tunable Parasitic Magnetization in Magnetoelectric Antiferromagnet. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800366.	2.4	10
29	Temperature dependence of the crystal structures and phase fractions of secondary phases in a Nd-Fe-B sintered magnet. <i>Acta Materialia</i> , 2018, 154, 25-32.	7.9	33
30	Unmasking the interior magnetic domain structure and evolution in Nd-Fe-B sintered magnets through high-field magnetic imaging of the fractured surface. <i>Physical Review Materials</i> , 2018, 2, .	2.4	23
31	Realization of a scanning soft X-ray microscope for magnetic imaging under high magnetic fields. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1444-1449.	2.4	35
32	Simultaneous achievement of high perpendicular exchange bias and low coercivity by controlling ferromagnetic/antiferromagnetic interfacial magnetic anisotropy. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	34
33	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
34	Electric-field-induced changes of magnetic moments and magnetocrystalline anisotropy in ultrathin cobalt films. <i>Physical Review B</i> , 2017, 96, .	3.2	48
35	Switching of perpendicular exchange bias in Pt/Co/Pt/ $\bar{1}\pm$ -Cr ₂ O ₃ /Pt layered structure using magneto-electric effect. <i>Journal of Applied Physics</i> , 2015, 117, 17D902.	2.5	42
36	Magnetoelectric switching of perpendicular exchange bias in Pt/Co/ $\bar{1}\pm$ -Cr ₂ O ₃ /Pt stacked films. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	74

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37	Direct observations of ferromagnetic and antiferromagnetic domains in Pt/Co/Cr ₂ O ₃ /Pt perpendicular exchange biased film. AIMS Materials Science, 2015, 2, 484-496.	1.4	21
38	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
39	Magnetic domain wall energy in Ni/Co superlattices. Journal of Magnetism and Magnetic Materials, 2014, 372, 41-46.	2.3	3
40	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