

Yu Shiratsuchi

List of Publications by Year in descending order

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75
papers

1,040
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471477

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#	ARTICLE	IF	CITATIONS
1	Converse Magnetoelectric Effect in Epitaxial $\text{Co}_{0.5}\text{MnSi}/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3/\text{PbTiO}_3$ Multiferroic Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5.	2.1	3
2	Low pressure drive of the domain wall in $\text{Pt}/\text{Co}/\text{Au}/\text{Cr}_2\text{O}_3/\text{Pt}$ thin films by the magnetoelectric effect. <i>Applied Physics Letters</i> , 2022, 120, 092404.	3.3	1
3	Magnetic-field and temperature dependence of anomalous Hall effect in $\text{Pt}/\text{Cr}_2\text{O}_3/\text{Pt}$ trilayer. <i>AIP Advances</i> , 2022, 12, .	1.3	5
4	Significant effect of interfacial spin moments in ferromagnet-semiconductor heterojunctions on spin transport in a semiconductor. <i>Physical Review B</i> , 2022, 105, .	3.2	0
5	Giant converse magnetoelectric effect in a multiferroic heterostructure with polycrystalline Co_2FeSi . <i>NPG Asia Materials</i> , 2022, 14, .	7.9	13
6	Synthesis of superparamagnetic $\text{Co}@\text{Pt}$ nanoparticle in <i>Pyrococcus furiosus</i> virus-like particle crystal. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 169, 110840.	4.0	1
7	Magnetoelectric Induced Switching of Perpendicular Exchange Bias Using 30-nm-Thick Cr_2O_3 Thin Film. <i>Magnetochemistry</i> , 2021, 7, 36.	2.4	6
8	Giant magnetoelectric effect in an L_{21} -ordered $\text{Co}_2\text{FeSi}/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3/\text{PbTiO}_3$ multiferroic heterostructure. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	9
9	Effect of Fe atomic layers at the ferromagnet-semiconductor interface on temperature-dependent spin transport in semiconductors. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	5
10	Magnetoelectric control of antiferromagnetic domain state in Cr_2O_3 thin film. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 243001.	1.8	14
11	Structural, Magnetic, and Electric Properties of $\text{Pt}/\text{Co}/\text{Au}/\text{Cr}_2\text{O}_3/\text{Pt}$ Thin Film with Cr_2O_3 Layer below 25 nm. <i>Journal of the Magnetics Society of Japan</i> , 2021, 45, 101-105.	0.9	1
12	Magnetic Properties and Magnetic Domain Observation of $\text{Nd}@\text{Fe}@\text{B}$ Sintered Magnets Treated by Grain Boundary Diffusion Process with $\text{Dy}@\text{Al}$ Co-Sorption. <i>Materials Transactions</i> , 2021, 62, 1216-1224.	1.2	4
13	Dominant carrier of pseudo-gap antiferromagnet Cr_3Al thin film. <i>Physica B: Condensed Matter</i> , 2021, 620, 413281.	2.7	0
14	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
15	Robust magnetic domain of $\text{Pt}/\text{Co}/\text{Au}/\text{Cr}_2\text{O}_3/\text{Pt}$ stacked films with a perpendicular exchange bias. <i>Journal of Applied Physics</i> , 2020, 127, 153902.	2.5	3
16	Regeneration of perpendicular exchange-biased state in high temperature regime in $\text{Pt}/\text{Co}/\text{Au}/\text{Cr}_2\text{O}_3/\text{Pt}$ stacked films. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SEEF02.	1.5	4
17	Realization of magnetoelectric effect in 50-nm-thick Cr_2O_3 thin film. <i>Applied Physics Express</i> , 2020, 13, 043003.	2.4	7
18	Giant Anomalous Hall Conductivity at the $\text{Pt}/\text{Cr}_2\text{O}_3$ Interface. <i>Physical Review Applied</i> , 2020, 13, .	3.8	14

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19	Magnetic properties of Co film in Pt/Co/Cr ₂ O ₃ /Pt structure. AIP Advances, 2020, 10, .	1.3	6
20	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
21	Resistive detection of the Néel temperature of Cr ₂ O ₃ thin films. Applied Physics Letters, 2019, 114, .	3.3	23
22	Enhancement of Perpendicular Exchange Bias by Introducing Twin Boundary in Pt/Co/ $\sqrt{3}\times\sqrt{3}$ -R _{1-x} O ₃ /Pt Epitaxial Film. Materials Transactions, 2019, 60, 2028-2032.	1.2	3
23	Determination of specific ion positions of Cr ³⁺ and O ²⁻ in Cr ₂ O ₃ thin films and their relationship to exchange anisotropy at Co/Cr ₂ O ₃ interfaces. Journal of Applied Physics, 2018, 123, .	2.5	12
24	Frustration and relaxation of antiferromagnetic domains reversed by magneto-electric field cooling in a Pt/Co/Au/Cr ₂ O ₃ /Pt-stacked film. AIP Advances, 2018, 8, .	1.3	5
25	Antiferromagnetic domain wall creep driven by magnetoelectric effect. APL Materials, 2018, 6, 121104.	5.1	9
26	Observation of the magnetoelectric reversal process of the antiferromagnetic domain. Applied Physics Letters, 2018, 113, 242404.	3.3	17
27	Energy condition of isothermal magnetoelectric switching of perpendicular exchange bias in Pt/Co/Au/Cr ₂ O ₃ /Pt stacked film. Journal of Applied Physics, 2018, 124, .	2.5	14
28	Magnetoelectric Control of Antiferromagnetic Domain of Cr ₂ O ₃ /Thin Film Toward Spintronic Application. Journal of the Magnetics Society of Japan, 2018, 42, 119-126.	0.9	5
29	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
30	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
31	Magnetic field dependence of threshold electric field for magnetoelectric switching of exchange-bias polarity. Journal of Applied Physics, 2017, 122, .	2.5	18
32	Pulse-voltage-driven dynamical switching of perpendicular exchange bias in Pt/Co/Au/Cr ₂ O ₃ /Pt thin film. Applied Physics Express, 2017, 10, 083002.	2.4	12
33	Special Issue on Advanced Spintronic/Nano-Magnetic Materials. Materials Transactions, 2016, 57, 759-759.	1.2	0
34	Perpendicular Exchange Bias and Magneto-Electric Control Using Cr ₂ O ₃ (0001) Thin Film. Materials Transactions, 2016, 57, 781-788.	1.2	28
35	Switching of perpendicular exchange bias in Pt/Co/Pt/ $\sqrt{3}\times\sqrt{3}$ -Cr ₂ O ₃ /Pt layered structure using magneto-electric effect. Journal of Applied Physics, 2015, 117, 17D902.	2.5	42
36	Magnetoelectric switching of perpendicular exchange bias in Pt/Co/ $\sqrt{3}\times\sqrt{3}$ -Cr ₂ O ₃ /Pt stacked films. Applied Physics Letters, 2015, 106, .	3.3	74

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37	Direct observations of ferromagnetic and antiferromagnetic domains in Pt/Co/Cr₂O₃/Pt perpendicular exchange biased film. AIMS Materials Science, 2015, 2, 484-496.	1.4	21
38	Equilibrium surface magnetization of $\text{Pt}/\text{Co}/\text{Cr}_2\text{O}_3$ studied through interfacial chromium magnetization in $\text{Co}/\text{Pt}/\text{Cr}_2\text{O}_3$ 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	Design, Fabrication, and Properties of Nanomaterials Using Ultrathin Film Techniques. , 2013, , 213-224.		0
41	Fabrication of ZnF2 thin films and their vacuum ultraviolet transparency. Thin Solid Films, 2013, 534, 508-514.	1.8	7
42	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
43	Detection and <i>In Situ</i> Switching of Unreversed Interfacial Antiferromagnetic Spins in a Perpendicular-Exchange-Biased System. Physical Review Letters, 2012, 109, 077202.	7.8	65
44	Strong Perpendicular Magnetic Anisotropy at Co(111)/ $\alpha\text{-Cr}_2\text{O}_3$ (0001) Interface. Applied Physics Express, 2012, 5, 043004.	2.4	21
45	Influence of Ferromagnetic Layer Composition on Perpendicular Exchange Anisotropy in Pt/Co _{1-x} Ni _x / $\alpha\text{-Cr}_2\text{O}_3$ Thin Films. IEEE Transactions on Magnetics, 2012, 48, 2885-2888.	2.1	2
46	Isothermal switching of perpendicular exchange bias by pulsed high magnetic field. Applied Physics Letters, 2012, 100, 262413.	3.3	17
47	Competition of perpendicular magnetic anisotropy and exchange magnetic anisotropy in a Pt/Co/ Cr_2O_3 (0001) thin film. Journal of Applied Physics, 2011, 109, 07C101.	2.5	16
48	Perpendicular Exchange Bias by $\alpha\text{-Cr}_2\text{O}_3$ Thin Film. Materia Japan, 2011, 50, 393-396.	0.1	0
49	Control of the Interfacial Exchange Coupling Energy in Pt/Co/ $\alpha\text{-Cr}_2\text{O}_3$ Films by Inserting a Pt Spacer Layer at the Co/ $\alpha\text{-Cr}_2\text{O}_3$ Interface. IEEE Transactions on Magnetics, 2011, 47, 3909-3912.	2.1	31
50	Effect of crystallinity of Co layer on perpendicular exchange bias in Au-capped ultrathin Co film on Cr_2O_3 (0001) thin film. Journal of Magnetism and Magnetic Materials, 2011, 323, 579-586.	2.3	7
51	Interface Magnetism of $\text{Au}/\text{Co}/\text{Cr}_2\text{O}_3$ (0001) Epitaxial Film With Perpendicular Magnetic Anisotropy and Perpendicular Exchange Bias. IEEE Transactions on Magnetics, 2010, 46, 1618-1621.	2.1	9
52	High Perpendicular Exchange Bias with a Unique Temperature Dependence in Pt/Co/ Cr_2O_3 (0001) Thin Films. Applied Physics Express, 2010, 3, 113001.	2.4	63
53	Fabrication of Antiferromagnetic $\alpha\text{-Cr}_2\text{O}_3$ (0001) Thin Film and Influence on Magnetism of Ultrathin Co Film. Journal of the Magnetics Society of Japan, 2009, 33, 467-472.	0.9	5
54	Magnetic coupling at interface of ultrathin Co film and antiferromagnetic Cr_2O_3 (0001) film. Journal of Applied Physics, 2009, 106, 033903.	2.5	18

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55	Superparamagnetism of ultrathin Co film on antiferromagnetic Cr ₂ O ₃ layer. Journal of Physics: Conference Series, 2009, 165, 012034.	0.4	7
56	Magnetic Properties of L12-type CrPt ₃ (111) film having the different order parameters. Journal of the Magnetism Society of Japan, 2009, 33, 447-450.	0.9	2
57	Magnetic properties of PfV encapsulating Ni ions. Journal of the Magnetism Society of Japan, 2009, 33, 473-476.	0.9	2
58	Contribution of Langevin behavior to the low temperature maximum in zero-field cooled magnetization of the discontinuous Fe films. Journal of Applied Physics, 2008, 103, .	2.5	2
59	Dominant factor of zero-field-cooled magnetization in discontinuous Fe films. Physical Review B, 2007, 76, .	3.2	17
60	Trapping of Magnetic Domain Wall in Nickel Constriction. Japanese Journal of Applied Physics, 2007, 46, 4117-4120.	1.5	7
61	Temperature dependence of reversible and irreversible magnetization of the discontinuous ultrathin Fe films. Journal of Magnetism and Magnetic Materials, 2007, 310, e756-e758.	2.3	2
62	Size effects on exchange bias in polycrystalline Ni ²⁺ /Fe/Fe ²⁺ /Mn square dots. Journal of Magnetism and Magnetic Materials, 2007, 310, 2677-2679.	2.3	5
63	Magnetic behaviour of Co ²⁺ /AlN thin films with various Co concentrations. Journal of Magnetism and Magnetic Materials, 2007, 310, e735-e737.	2.3	4
64	Magnetism and surface structure of atomically controlled ultrathin metal films. Progress in Surface Science, 2007, 82, 121-160.	8.3	63
65	Title is missing!. Journal of the Robotics Society of Japan, 2007, 25, 359-361.	0.1	0
66	Magnetism of Ultrathin Fe Films in the Vicinity of Transition from Ferromagnetism to Superparamagnetism. Materials Science Forum, 2006, 512, 165-170.	0.3	0
67	è¶...è—, è†œã«ãšãšã, ç£æ°—ç%©æ€šã•ãfšãfžæš«éã®ç, é—ç. Materia Japan, 2005, 44, 891-897.	0.1	0
68	Evolution of Magnetic State of Ultrathin Co Films with Volmer-Weber Growth. Japanese Journal of Applied Physics, 2005, 44, 8456-8461.	1.5	10
69	Effect of substrate inclination on the magnetic anisotropy of ultrathin Fe films grown on Al ₂ O ₃ (0001). Journal of Applied Physics, 2005, 97, 10J106.	2.5	15
70	Magnetic phase transition and anisotropy of ultrathin Fe films grown on inclined Al ₂ O ₃ (0001) substrates. Journal of Applied Physics, 2004, 95, 6897-6899.	2.5	14
71	Transition from superparamagnetic to ferromagnetic state of ultrathin Fe films grown on inclined Al ₂ O ₃ (0001) substrates. Thin Solid Films, 2004, 464-465, 141-145.	1.8	13
72	Thickness dependence of magnetic state of Fe thin films grown on Al ₂ O ₃ (0001) substrates with an inclined angle. Science and Technology of Advanced Materials, 2004, 5, 73-78.	6.1	15

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73	Superparamagnetic behavior of ultrathin Fe films grown on Al ₂ O ₃ (0001) substrates. Journal of Applied Physics, 2003, 94, 7675.	2.5	25
74	Magnetic Property and Morphology of Fe Film Grown on Self-Organized SrTiO ₃ (001) Substrate with Inclined Angle. Japanese Journal of Applied Physics, 2003, 42, 6543-6550.	1.5	5
75	Surface Structure of Self-Organized Sapphire (0001) Substrates with Various Inclined Angles. Japanese Journal of Applied Physics, 2002, 41, 5719-5725.	1.5	56