

Takamasa Hirai

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

277
citations

1039880

9
h-index

940416

16
g-index

24
all docs

24
docs citations

24
times ranked

308
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the spin-orbit torque in a Pt/Co system with a naturally oxidized Co layer. Applied Physics Letters, 2017, 111, 132404.	1.5	36
2	Control of magnetic anisotropy in Pt/Co system using ionic liquid gating. Applied Physics Express, 2016, 9, 063007.	1.1	35
3	Peculiar temperature dependence of electric-field effect on magnetic anisotropy in Co/Pd/MgO system. Applied Physics Letters, 2016, 109, .	1.5	34
4	Trapping a magnetic field of 7.9 T using a bulk magnet fabricated from stack of coated conductors. Physica C: Superconductivity and Its Applications, 2016, 530, 20-23.	0.6	25
5	Control of magnetism by electrical charge doping or redox reactions in a surface-oxidized Co thin film with a solid-state capacitor structure. Applied Physics Letters, 2018, 112, .	1.5	21
6	High-temperature dependence of anomalous Ettingshausen effect in SmCo ₅ -type permanent magnets. Applied Physics Letters, 2020, 117, .	1.5	18
7	Above-room-temperature giant thermal conductivity switching in spintronic multilayers. Applied Physics Letters, 2021, 118, .	1.5	18
8	Electric-field effect on magnetic anisotropy in Pt/Co/Pd/MgO structures deposited on GaAs and Si substrates. Applied Physics Express, 2018, 11, 013003.	1.1	13
9	Thickness dependence of anomalous Hall and Nernst effects in Ni-Fe thin films. Physical Review B, 2022, 105, .	1.1	11
10	Electric-field-induced on/off switching of anomalous Ettingshausen effect in ultrathin Co films. Applied Physics Express, 2019, 12, 123003.	1.1	8
11	Electric-field-induced magnetic domain writing in a Co wire. Applied Physics Express, 2018, 11, 053005.	1.1	6
12	Electric field modulation of exchange bias at the Co ₂ O ₃ /Co interface. Physical Review B, 2020, 101, .	1.1	6
13	Strain-induced cooling-heating switching of anisotropic magneto-Peltier effect. Applied Physics Letters, 2021, 118, .	1.5	6
14	Modification of interfacial spin-orbit torque in Co/Pt/oxide hybrid structures. Physical Review B, 2021, 104, .	1.1	6
15	Voltage control of spin-orbit torque in Pd/Co/Pd/HfO ₂ . Applied Physics Express, 2020, 13, 123005.	1.1	6
16	Elastocaloric Kirigami Temperature Modulator. Advanced Functional Materials, 0, , 2201116.	7.8	6
17	Seebeck-driven transverse thermoelectric generation in on-chip devices. Journal Physics D: Applied Physics, 2022, 55, 335002.	1.3	5
18	Electric field effect on magnetism in a MgO/Pd/Co system with a solid-state capacitor structure. AIP Advances, 2018, 8, 115122.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Extended x-ray absorption fine structure spectroscopy of stretched magnetic films on flexible substrate. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	4
20	Temperature dependence of anisotropic magneto-Seebeck effect in NiPt alloys. <i>Applied Physics Express</i> , 2021, 14, 073001.	1.1	4
21	Dielectric and magnetic characterizations of capacitor structures with an ionic liquid/MgO barrier and a ferromagnetic Pt electrode. <i>AIP Advances</i> , 2016, 6, 115305.	0.6	2
22	Deposition temperature dependence of thermo-spin and magneto-thermoelectric conversion in Co ₂ MnGa films on Y ₃ Fe ₅ O ₁₂ and Gd ₃ Ga ₅ O ₁₂ . <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
23	Spin Peltier effect and its length scale in Pt/YIG system at high temperatures. <i>Applied Physics Express</i> , 0, , .	1.1	1
24	Solid-state capacitor for voltage control of magnetism formed on a flexible substrate. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 118003.	0.8	0