

Chun Feng

List of Publications by Year in descending order

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42
papers

630
citations

840776

11
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45
docs citations

45
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. <i>Nature Communications</i> , 2020, 11, 3577.	12.8	117
2	Magnetic properties and microstructure of FePt/Au multilayers with high perpendicular magnetocrystalline anisotropy. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	74
3	Construction of a Room-Temperature Pt/Co/Ta Multilayer Film with Ultrahigh-Density Skyrmions for Memory Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12098-12104.	8.0	60
4	Interfacial oxygen migration and its effect on the magnetic anisotropy in Pt/Co/MgO/Pt films. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	58
5	Research progress in anisotropic magnetoresistance. <i>Rare Metals</i> , 2013, 32, 213-224.	7.1	31
6	Field-Free Manipulation of Skyrmion Creation and Annihilation by Tunable Strain Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2008715.	14.9	31
7	Significant Strain-Induced Orbital Reconstruction and Strong Interfacial Magnetism in TiNi(Nb)/Ferromagnet/Oxide Heterostructures via Oxygen Manipulation. <i>Advanced Functional Materials</i> , 2018, 28, 1803335.	14.9	30
8	Enhancement of the magnetic field sensitivity in Al ₂ O ₃ encapsulated NiFe films with anisotropic magnetoresistance. <i>Applied Physics Letters</i> , 2009, 94, 162506.	3.3	26
9	Reversible and Nonvolatile Modulations of Magnetization Switching Characteristic and Domain Configuration in L1 ₀ -FePt Films via Nonelectrically Controlled Strain Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7545-7552.	8.0	19
10	Giant Strain Control of Antiferromagnetic Moment in Metallic FeMn by Tuning Exchange Spring Structure. <i>Advanced Functional Materials</i> , 2020, 30, 1909708.	14.9	19
11	Controlled Switching of the Number of Skyrmions in a Magnetic Nanodot by Electric Fields. <i>Advanced Materials</i> , 2022, 34, e2107908.	21.0	19
12	Nonvolatile modulation of electronic structure and correlative magnetism of L1 ₀ -FePt films using significant strain induced by shape memory substrates. <i>Scientific Reports</i> , 2016, 6, 20199.	3.3	11
13	Electromigration induced fast L1 ₀ ordering phase transition in perpendicular FePt films. <i>Applied Physics Letters</i> , 2013, 102, 022411.	3.3	10
14	Nitrogen Tuned Charge Redistribution and Orbital Reconfiguration in Fe/MgO Interface for Significant Interfacial Magnetism Tunability. <i>Advanced Functional Materials</i> , 2019, 29, 1806677.	14.9	10
15	Switchable Magnetic Anisotropy of Ferromagnets by Dual-Ion-Manipulated Orbital Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32475-32480.	8.0	10
16	Tuning perpendicular magnetic anisotropy and coercivity of L1-FePt nanocomposite film by interfacial manipulation. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	9
17	Progress in oxygen behaviors in two-dimensional thin films. <i>Rare Metals</i> , 2017, 36, 155-167.	7.1	8
18	Construction of high-performance magnetic sensor based on anisotropic magnetoresistance Ta/MgO/NiFe/MgO/Ta film. <i>Rare Metals</i> , 2021, 40, 2026-2032.	7.1	8

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19	Controlled Switching of the Number of Skyrmions in a Magnetic Nanodot by Electric Fields (Adv.) Tj ETQq1 1 0.784314 rgBT /gOverloc	2.1	8
20	An all-metal material for high-sensitivity geomagnetic sensors with improved magnetic stability by magnetostatic coupling. Journal Physics D: Applied Physics, 2011, 44, 385001.	2.8	7
21	Modification of magnetic properties in SmCo films by controlling crystallization and phase transition. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1798-1802.	5.1	6
22	Co/Pt multilayer-based pseudo spin valves with perpendicular magnetic anisotropy. Rare Metals, 2014, 33, 646-651.	7.1	6
23	Enhancement of post-annealing stability in Co/Ni multilayers with perpendicular magnetic anisotropy by Au insertion layers. Rare Metals, 2016, 35, 779-783.	7.1	6
24	Thickness-dependent electronic structure modulation of ferromagnetic films on shape memory alloy substrates based on a pure strain effect. Applied Physics Letters, 2016, 109, .	3.3	5
25	Synthesis of L10-FePt perpendicular films with controllable coercivity and intergranular exchange coupling by interfacial microstructure control. Journal of Applied Physics, 2010, 107, 123911.	2.5	4
26	Study of low-temperature ordering and crystal structure in FePtBi/Au nanocomposite films. Applied Physics A: Materials Science and Processing, 2012, 109, 145-149.	2.3	4
27	Noise reduction by magnetostatic coupling in geomagnetic-field sensors. Journal of Magnetism and Magnetic Materials, 2014, 368, 328-332.	2.3	4
28	Improved magnetic anisotropy of Co-based multilayer film with nitrogen dopant. Rare Metals, 2021, 40, 2855-2861.	7.1	4
29	Manipulation of the magnetic exchange interaction in SmCo films with high thermal stability by controlling phase transformation. Applied Physics A: Materials Science and Processing, 2012, 106, 125-129.	2.3	3
30	Bulk defects induced coercivity modulation of Co thin film based on a Ta/Bi double buffer layer. Journal of Magnetism and Magnetic Materials, 2020, 500, 166388.	2.3	3
31	Enhanced soft magnetic properties in CoZrTa(B) thin film with improving amorphous structure via introducing B atoms. AIP Advances, 2020, 10, 065109.	1.3	3
32	Tailoring the magnetic properties of sputtered amorphous CoZrTa/metal-oxide (MO) by interfacial oxygen migration. Journal of Applied Physics, 2020, 128, .	2.5	3
33	Enhancement of perpendicular magnetic anisotropy of ferromagnet/oxide heterointerface by an oxygen-dependent orbital modulation. Applied Physics Letters, 2020, 116, .	3.3	3
34	Discrepancy of the magnetic behaviors and crystalline structure on the Co/FeMn and FeMn/Co interfaces with ultrathin Pt spacer. Rare Metals, 2010, 29, 473-479.	7.1	2
35	Manipulating NiFe/AlOx interfacial chemistry for the spin-polarized electrons transport. Applied Surface Science, 2013, 283, 46-51.	6.1	2
36	Dynamical mechanism for coercivity tunability in the electrically controlled FePt perpendicular films with small grain size. Journal of Applied Physics, 2014, 115, 023906.	2.5	2

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37	Correlation between pass-through flux of cobalt target and microstructure and magnetic properties of sputtered thin films. <i>Rare Metals</i> , 2021, 40, 975-980.	7.1	2
38	Study on NiO/Fe interface with X-ray photoelectron spectroscopy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010, 17, 777-781.	4.9	1
39	Broad magnetic anisotropy regulation in as-deposited Pt/Co/MgO multilayers by tuning electronic coordination. <i>Applied Physics Letters</i> , 2021, 118, 252401.	3.3	1
40	Response to "Comment on "Magnetic properties and microstructure of FePt/Au multilayers with high perpendicular magnetocrystalline anisotropy" [Appl. Phys. Lett. 94, 036101 (2009)]. <i>Applied Physics Letters</i> , 2009, 94, 036102.	3.3	0
41	Improvement of interfacial electron scattering by introduced NiFe nanoparticles. <i>Rare Metals</i> , 2012, 31, 117-120.	7.1	0
42	Orbit-Engineered Anisotropic Magnetoresistive Effect for Constructing a Magnetic Sensor with Ultrahigh Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	8.0	0