Guanghua Yu

List of Publications by Year
in descending order

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54	555	840585 11	713332 21
papers	citations	h-index	g-index

55	55	55	743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. Nature Communications, 2020, 11, 3577.	5.8	117
2	Iron cobalt/polypyrrole nanoplates with tunable broadband electromagnetic wave absorption. RSC Advances, 2016, 6, 92152-92158.	1.7	41
3	Three dimensional magnetic abacus memory. Scientific Reports, 2014, 4, 6109.	1.6	33
4	Fieldâ€Free Manipulation of Skyrmion Creation and Annihilation by Tunable Strain Engineering. Advanced Functional Materials, 2021, 31, 2008715.	7.8	31
5	Significant Strainâ€Induced Orbital Reconstruction and Strong Interfacial Magnetism in TiNi(Nb)/Ferromagnet/Oxide Heterostructures via Oxygen Manipulation. Advanced Functional Materials, 2018, 28, 1803335.	7.8	30
6	Mechanism of Nitrogen-Doped Ti₃C₂ Quantum Dots for Free-Radical Scavenging and the Ultrasensitive H₂O₂ Detection Performance. ACS Applied Materials & Interfaces, 2021, 13, 42442-42450.	4.0	30
7	Ru Catalyst-Induced Perpendicular Magnetic Anisotropy in MgO/CoFeB/Ta/MgO Multilayered Films. ACS Applied Materials & Interfaces, 2015, 7, 26643-26648.	4.0	22
8	Reversible and Nonvolatile Modulations of Magnetization Switching Characteristic and Domain Configuration in L1₀-FePt Films via Nonelectrically Controlled Strain Engineering. ACS Applied Materials & Interfaces, 2016, 8, 7545-7552.	4.0	19
9	Giant Strain Control of Antiferromagnetic Moment in Metallic FeMn by Tuning Exchange Spring Structure. Advanced Functional Materials, 2020, 30, 1909708.	7.8	19
10	Controlled Switching of the Number of Skyrmions in a Magnetic Nanodot by Electric Fields. Advanced Materials, 2022, 34, e2107908.	11.1	19
11	Fabrication and magnetic properties of structure-tunable Co2FeGa-SiO2 Heusler nanocompounds. AIP Advances, 2018, 8, .	0.6	12
12	Investigation on interface of NiFeCr/NiFe/Ta films with high magnetic field sensitivity. Rare Metals, 2012, 31, 22-26.	3.6	11
13	Nonvolatile modulation of electronic structure and correlative magnetism of L10-FePt films using significant strain induced by shape memory substrates. Scientific Reports, 2016, 6, 20199.	1.6	11
14	Electromigration induced fast L10 ordering phase transition in perpendicular FePt films. Applied Physics Letters, 2013, 102, 022411.	1.5	10
15	Nitrogen Tuned Charge Redistribution and Orbital Reconfiguration in Fe/MgO Interface for Significant Interfacial Magnetism Tunability. Advanced Functional Materials, 2019, 29, 1806677.	7.8	10
16	Tuning perpendicular magnetic anisotropy and coercivity of L1-FePt nanocomposite film by interfacial manipulation. Journal of Applied Physics, 2011, 109, .	1.1	9
17	Anisotropic Magnetoresistance of Nano-conductive Filament in Co/HfO2/Pt Resistive Switching Memory. Nanoscale Research Letters, 2017, 12, 210.	3.1	9
18	Construction of high-performance magnetic sensor based on anisotropic magnetoresistance Ta/MgO/NiFe/MgO/Ta film. Rare Metals, 2021, 40, 2026-2032.	3.6	8

#	Article	IF	Citations
19	Controlled Switching of the Number of Skyrmions in a Magnetic Nanodot by Electric Fields (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	11.1	8
20	Large enhancement of perpendicular magnetic anisotropy and high annealing stability by Pt insertion layer in (Co/Ni)-based multilayers. AIP Advances, 2015, 5, 097121.	0.6	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.	2.0	6
22	Co/Pt multilayer-based pseudo spin valves with perpendicular magnetic anisotropy. Rare Metals, 2014, 33, 646-651.	3.6	6
23	Ultrasensitive Anomalous Hall Effect in Ta/CoFe/Oxide/Ta Multilayers. Advances in Condensed Matter Physics, 2016, 2016, 1-7.	0.4	6
24	Enhancement of post-annealing stability in Co/Ni multilayers with perpendicular magnetic anisotropy by Au insertion layers. Rare Metals, 2016, 35, 779-783.	3.6	6
25	Switchable valley injection into graphene. Physical Review B, 2015, 92, .	1.1	5
26	Universal Magnetic Hall Circuit Based on Paired Spin Heterostructures. Advanced Electronic Materials, 2015, 1, 1400054.	2.6	5
27	The influence of an MgO nanolayer on the planar Hall effect in NiFe films. Journal of Applied Physics, 2015, 117, .	1.1	5
28	Thickness-dependent electronic structure modulation of ferromagnetic films on shape memory alloy substrates based on a pure strain effect. Applied Physics Letters, 2016, 109, .	1.5	5
29	Electrical and Mechanical Properties Enhancement in Superlatticeâ€Like GaSb/Ge₂Sb₂Te₅ Phase Change Thin Films. Advanced Materials Interfaces, 2021, 8, 2100405.	1.9	5
30	Synthesis of L10-FePt perpendicular films with controllable coercivity and intergranular exchange coupling by interfacial microstructure control. Journal of Applied Physics, 2010, 107, 123911.	1.1	4
31	Study of low-temperature ordering and crystal structure in FePtBi/Au nanocomposite films. Applied Physics A: Materials Science and Processing, 2012, 109, 145-149.	1.1	4
32	Enhancement of anisotropic magnetoresistance in MgO/NiFe/MgO trilayers via NiFe nanoparticles in MgO layers. Journal of Applied Physics, 2012, 111, 123903.	1.1	4
33	Influence of electric field on the microstructures and magnetic softness of FeNi nanoparticle films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
34	Spin-polarized quantum transport in Si dangling bond wires. Nanoscale, 2020, 12, 6079-6088.	2.8	4
35	Improved magnetic anisotropy of Co-based multilayer film with nitrogen dopant. Rare Metals, 2021, 40, 2855-2861.	3.6	4
36	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.	1.1	3

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37	Conditions for quantized anisotropic magnetoresistance. Physical Review B, 2015, 91, .	1.1	3
38	Enhanced soft magnetic properties in CoZrTa(B) thin film with improving amorphous structure via introducing B atoms. AIP Advances, 2020, 10, 065109.	0.6	3
39	Tailoring the magnetic properties of sputtered amorphous CoZrTa/metal-oxide (MO) by interfacial oxygen migration. Journal of Applied Physics, 2020, 128, .	1.1	3
40	Dynamical mechanism for coercivity tunability in the electrically controlled FePt perpendicular films with small grain size. Journal of Applied Physics, 2014, 115, 023906.	1.1	2
41	Large enhancement of Blocking temperature by control of interfacial structures in Pt/NiFe/IrMn/MgO/Pt multilayers. AIP Advances, 2015, 5, 097146.	0.6	2
42	Electric field modulation of magnetic anisotropy and microwave absorption properties in Fe50Ni50/Teflon composite films. AIP Advances, 2016, 6, 055905.	0.6	2
43	Quantum transport investigation of anomalous Hall resistance in four-probe magnetic nanostructures. Physical Review B, 2016, 94, .	1.1	2
44	Correlation between pass-through flux of cobalt target and microstructure and magnetic properties of sputtered thin films. Rare Metals, 2021, 40, 975-980.	3.6	2
45	The influence of the nonmagnetic metal spacer Bi, Ag and Cu on the properties of the multilayer films. Science Bulletin, 2006, 51, 2183-2188.	1.7	1
46	Tailoring perpendicular magnetic anisotropy in Co/Pt multilayers by interface doping with ultrathin Fe layer. Rare Metals, 2022, 41, 3823-3827.	3.6	1
47	Effects of short-range order and interfacial interactions on the electronic structure of two-dimensional antimony-arsenic alloys. Journal of Applied Physics, 2020, 127, 025305.	1.1	1
48	Broad magnetic anisotropy regulation in as-deposited Pt/Co/MgO multilayers by tuning electronic coordination. Applied Physics Letters, 2021, 118, 252401.	1.5	1
49	Effect of Cu surface segregation on the exchange coupling field of NiFe/FeMn bilayers. Science Bulletin, 2001, 46, 1934-1936.	1.7	0
50	Structure and magnetic properties of vacuum annealed FePt/Ag nano-multilayers. Science Bulletin, 2003, 48, 236-238.	1.7	0
51	Improvement of interfacial electron scattering by introduced NiFe nanoparticles. Rare Metals, 2012, 31, 117-120.	3.6	0
52	Organic Transistors: Universal Magnetic Hall Circuit Based on Paired Spin Heterostructures (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	0
53	Tunable perpendicular anisotropic magnetoresistance in CoO/Co/Pt heterostructures. Rare Metals, 2023, 42, 579-584.	3.6	0
54	Orbit-Engineered Anisotropic Magnetoresistive Effect for Constructing a Magnetic Sensor with Ultrahigh Sensitivity. ACS Applied Materials & Interfaces, 2022, , .	4.0	0