Guanghua Yu

List of Publications by Year in Descending Order

52 papers	320 citations	9 h-index	15 g-index
55 ext. papers	427 ext. citations	6.1 avg, IF	3.08 L-index

#	Paper	IF	Citations
52	Controlled Switching of the Number of Skyrmions in a Magnetic Nanodot by Electric Fields (Adv. Mater. 11/2022). *Advanced Materials*, **2022**, 34, 2270090	24	0
51	Controlled switching of the number of skyrmions in a magnetic nanodot by electric fields.. *Advanced Materials*, **2021**, e2107908	24	3
50	Improved magnetic anisotropy of Co-based multilayer film with nitrogen dopant. *Rare Metals*, **2021**, 40, 2855-2861	5.5	0
49	Electrical and Mechanical Properties Enhancement in Superlattice-Like GaSb/Ge2Sb2Te5 Phase Change Thin Films. *Advanced Materials Interfaces*, **2021**, 8, 2100405	4.6	1
48	Broad magnetic anisotropy regulation in as-deposited Pt/Co/MgO multilayers by tuning electronic coordination. *Applied Physics Letters*, **2021**, 118, 252401	3.4	1
47	Correlation between pass-through flux of cobalt target and microstructure and magnetic properties of sputtered thin films. *Rare Metals*, **2021**, 40, 975-980	5.5	1
46	Field-Free Manipulation of Skyrmion Creation and Annihilation by Tunable Strain Engineering. *Advanced Functional Materials*, **2021**, 31, 2008715	15.6	7
45	Construction of high-performance magnetic sensor based on anisotropic magnetoresistance Ta/MgO/NiFe/MgO/Ta film. *Rare Metals*, **2021**, 40, 2026-2032	5.5	2
44	Mechanism of Nitrogen-Doped TiC Quantum Dots for Free-Radical Scavenging and the Ultrasensitive HO Detection Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 42442-42450	8.5	5
43	Tailoring the magnetic properties of sputtered amorphous CoZrTa/metal-oxide (MO) by interfacial oxygen migration. *Journal of Applied Physics*, **2020**, 128, 165303	2.5	1
42	Giant Strain Control of Antiferromagnetic Moment in Metallic FeMn by Tuning Exchange Spring Structure. *Advanced Functional Materials*, **2020**, 30, 1909708	15.6	10
41	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	2.5	1
40	Spin-polarized quantum transport in Si dangling bond wires. *Nanoscale*, **2020**, 12, 6079-6088	7.7	2
39	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. *Nature Communications*, **2020**, 11, 3577	17.4	40
38	Enhanced soft magnetic properties in CoZrTa(B) thin film with improving amorphous structure via introducing B atoms. *AIP Advances*, **2020**, 10, 065109	1.5	2
37	Significant Strain-Induced Orbital Reconstruction and Strong Interfacial Magnetism in TiNi(Nb)/Ferromagnet/Oxide Heterostructures via Oxygen Manipulation. *Advanced Functional Materials*, **2018**, 28, 1803335	15.6	26
36	Nitrogen Tuned Charge Redistribution and Orbital Reconfiguration in Fe/MgO Interface for Significant Interfacial Magnetism Tunability. *Advanced Functional Materials*, **2018**, 29, 1806677	15.6	7

35	Fabrication and magnetic properties of structure-tunable Co2FeGa-SiO2 Heusler nanocompounds. *AIP Advances*, **2018**, 8, 055107	1.5	5
34	Anisotropic Magnetoresistance of Nano-conductive Filament in Co/HfO/Pt Resistive Switching Memory. *Nanoscale Research Letters*, **2017**, 12, 210	5	6
33	Tunable perpendicular anisotropic magnetoresistance in CoO/Co/Pt heterostructures. *Rare Metals*, **2017**, 1	5.5	
32	Quantum transport investigation of anomalous Hall resistance in four-probe magnetic nanostructures. *Physical Review B*, **2016**, 94,	3.3	2
31	Tailoring perpendicular magnetic anisotropy in Co/Pt multilayers by interface doping with ultrathin Fe layer. *Rare Metals*, **2016**, 1	5.5	
30	Enhancement of post-annealing stability in Co/Ni multilayers with perpendicular magnetic anisotropy by Au insertion layers. *Rare Metals*, **2016**, 35, 779-783	5.5	6
29	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, 7545-52	9.5	14
28	Ultrasensitive Anomalous Hall Effect in Ta/CoFe/Oxide/Ta Multilayers. *Advances in Condensed Matter Physics*, **2016**, 2016, 1-7	1	4
27	Electric field modulation of magnetic anisotropy and microwave absorption properties in Fe50Ni50/Teflon composite films. *AIP Advances*, **2016**, 6, 055905	1.5	1
26	Thickness-dependent electronic structure modulation of ferromagnetic films on shape memory alloy substrates based on a pure strain effect. *Applied Physics Letters*, **2016**, 109, 212401	3.4	4
25	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	4.9	11
24	Influence of electric field on the microstructures and magnetic softness of FeNi nanoparticle films. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	4
23	Iron cobalt/polypyrrole nanoplates with tunable broadband electromagnetic wave absorption. *RSC Advances*, **2016**, 6, 92152-92158	3.7	31
22	The influence of an MgO nanolayer on the planar Hall effect in NiFe films. *Journal of Applied Physics* , **2015**, 117, 123908	2.5	4
21	Ru Catalyst-Induced Perpendicular Magnetic Anisotropy in MgO/CoFeB/Ta/MgO Multilayered Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 26643-8	9.5	15
20	Switchable valley injection into graphene. *Physical Review B*, **2015**, 92,	3.3	5
19	Large enhancement of perpendicular magnetic anisotropy and high annealing stability by Pt insertion layer in (Co/Ni)-based multilayers. *AIP Advances*, **2015**, 5, 097121	1.5	7
18	Large enhancement of Blocking temperature by control of interfacial structures in Pt/NiFe/IrMn/MgO/Pt multilayers. *AIP Advances*, **2015**, 5, 097146	1.5	2

17	Universal Magnetic Hall Circuit Based on Paired Spin Heterostructures. *Advanced Electronic Materials*, **2015**, 1, 1400054	6.4	4
16	Conditions for quantized anisotropic magnetoresistance. *Physical Review B*, **2015**, 91,	3.3	2
15	Three dimensional magnetic abacus memory. *Scientific Reports*, **2014**, 4, 6109	4.9	32
14	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
13	Co/Pt multilayer-based pseudo spin valves with perpendicular magnetic anisotropy. *Rare Metals*, **2014**, 33, 646-651	5.5	4
12	Electromigration induced fast L10 ordering phase transition in perpendicular FePt films. *Applied Physics Letters*, **2013**, 102, 022411	3.4	8
11	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	2.6	2
10	Modification of magnetic properties in SmCo films by controlling crystallization and phase transition. *Science China: Physics, Mechanics and Astronomy*, **2012**, 55, 1798-1802	3.6	6
9	Study of low-temperature ordering and crystal structure in FePtBi/Au nanocomposite films. *Applied Physics A: Materials Science and Processing*, **2012**, 109, 145-149	2.6	3
8	Enhancement of anisotropic magnetoresistance in MgO/NiFe/MgO trilayers via NiFe nanoparticles in MgO layers. *Journal of Applied Physics*, **2012**, 111, 123903	2.5	3
7	Investigation on interface of NiFeCr/NiFe/Ta films with high magnetic field sensitivity. *Rare Metals*, **2012**, 31, 22-26	5.5	10
6	Improvement of interfacial electron scattering by introduced NiFe nanoparticles. *Rare Metals*, **2012**, 31, 117-120	5.5	
5	Tuning perpendicular magnetic anisotropy and coercivity of L10-FePt nanocomposite film by interfacial manipulation. *Journal of Applied Physics*, **2011**, 109, 063918	2.5	9
4	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
3	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
2	Structure and magnetic properties of vacuum annealed FePt/Ag nano-multilayers. *Science Bulletin*, **2003**, 48, 236-238		
1	Effect of Cu surface segregation on the exchange coupling field of NiFe/FeMn bilayers. *Science Bulletin*, **2001**, 46, 1934-1936		