

# Guanghua Yu

## List of Publications by Year in descending order

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72  
papers

905  
citations

623734

14  
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526287

27  
g-index

72  
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docs citations

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times ranked

1177  
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	Cobalt/polypyrrole nanocomposites with controllable electromagnetic properties. <i>Nanoscale</i> , 2015, 7, 7189-7196.	5.6	113
3	Magnetic properties and microstructure of FePt/Au multilayers with high perpendicular magnetocrystalline anisotropy. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	74
4	Construction of a Room-Temperature Pt/Co/Ta Multilayer Film with Ultrahigh-Density Skyrmions for Memory Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12098-12104.	8.0	60
5	Iron cobalt/polypyrrole nanoplates with tunable broadband electromagnetic wave absorption. <i>RSC Advances</i> , 2016, 6, 92152-92158.	3.6	41
6	Three dimensional magnetic abacus memory. <i>Scientific Reports</i> , 2014, 4, 6109.	3.3	33
7	Field-Free Manipulation of Skyrmion Creation and Annihilation by Tunable Strain Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2008715.	14.9	31
8	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
9	Enhanced microwave-absorption performance of FeCoB/Polyimide-Graphene composite by electric field modulation. <i>Composites Science and Technology</i> , 2017, 152, 222-230.	7.8	23
10	Ru Catalyst-Induced Perpendicular Magnetic Anisotropy in MgO/CoFeB/Ta/MgO Multilayered Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26643-26648.	8.0	22
11	Effects of annealing on the magnetic properties and microstructures of Ta/Mo/CoFeB/MgO/Ta films. <i>Journal of Alloys and Compounds</i> , 2017, 692, 243-248.	5.5	20
12	Reversible and Nonvolatile Modulations of Magnetization Switching Characteristic and Domain Configuration in L1 <sub>0</sub> -FePt Films via Nonelectrically Controlled Strain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7545-7552.	8.0	19
13	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
14	The effect of interfacial oxygen migration on the PMA and thermal stability in MTJ with double MgO layers. <i>Applied Surface Science</i> , 2019, 488, 30-35.	6.1	15
15	Ultrahigh Anomalous Hall Sensitivity in Co/Pt Multilayers by Interfacial Modification. <i>Applied Physics Express</i> , 2013, 6, 103007.	2.4	13
16	Fabrication and magnetic properties of structure-tunable Co <sub>2</sub> FeGa-SiO <sub>2</sub> Heusler nanocompounds. <i>AIP Advances</i> , 2018, 8, .	1.3	12
17	Heavy-Metal-Free, Low-Damping, and Non-Interface Perpendicular Fe <sub>16</sub> N <sub>2</sub> Thin Film and Magnetoresistance Device. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900089.	2.4	12
18	Nonvolatile modulation of electronic structure and correlative magnetism of L1 <sub>0</sub> -FePt films using significant strain induced by shape memory substrates. <i>Scientific Reports</i> , 2016, 6, 20199.	3.3	11

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19	Electromigration induced fast L10 ordering phase transition in perpendicular FePt films. Applied Physics Letters, 2013, 102, 022411.	3.3	10
20	Magnetic and structural characterizations of Heusler Ni <sub>2</sub> FeGa nanoparticles. Materials Research Express, 2016, 3, 115012.	1.6	10
21	Crystalline and magnetic structures and ferromagnetic resonance study of Ni-Co-Mn-Ge Heusler alloy system. Journal of Alloys and Compounds, 2018, 739, 77-84.	5.5	10
22	Nitrogen Tuned Charge Redistribution and Orbital Reconfiguration in Fe/MgO Interface for Significant Interfacial Magnetism Tunability. Advanced Functional Materials, 2019, 29, 1806677.	14.9	10
23	Switchable Magnetic Anisotropy of Ferromagnets by Dual-Ion-Manipulated Orbital Engineering. ACS Applied Materials & Interfaces, 2019, 11, 32475-32480.	8.0	10
24	Tuning perpendicular magnetic anisotropy and coercivity of L1-FePt nanocomposite film by interfacial manipulation. Journal of Applied Physics, 2011, 109, .	2.5	9
25	Control of spin-polarized electron magnetoresistance in Ta/NiFe/Ta films by intercalation of Au. Journal Physics D: Applied Physics, 2013, 46, 025002.	2.8	9
26	In situ atomic scale mechanisms of strain-induced twin boundary shear to high angle grain boundary in nanocrystalline Pt. Ultramicroscopy, 2018, 195, 69-73.	1.9	9
27	Electrically Tunable Wafer-Sized Three-Dimensional Topological Insulator Thin Films Grown by Magnetron Sputtering*. Chinese Physics Letters, 2020, 37, 057301.	3.3	9
28	Influence of inserted Mo layer on the thermal stability of perpendicularly magnetized Ta/Mo/Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO/Ta films. AIP Advances, 2016, 6, .	1.3	8
29	The impact of Hf layer thickness on the perpendicular magnetic anisotropy in Hf/CoFeB/MgO/Ta films. Journal of Alloys and Compounds, 2017, 694, 76-81.	5.5	8
30	Characterization of the interfacial structure and perpendicular magnetic anisotropy in CoFeB/MgO structures with different buffer layers. Surface and Interface Analysis, 2018, 50, 59-64.	1.8	8
31	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
32	XPS analyses on Ta/Au/NiFe/NiO/Ta films. Surface and Interface Analysis, 2015, 47, 540-544.	1.8	7
33	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
34	Ultrasensitive Anomalous Hall Effect in Ta/CoFe/Oxide/Ta Multilayers. Advances in Condensed Matter Physics, 2016, 2016, 1-7.	1.1	6
35	The effect of HfO <sub>2</sub> on the magnetic anisotropy, electrical structure and microstructure of CoFeB/MgO films. Journal of Alloys and Compounds, 2017, 725, 425-432.	5.5	6
36	The perpendicular magnetic anisotropies of CoFeB/MgO films with Nb buffer layers. Journal of Magnetism and Magnetic Materials, 2019, 485, 187-192.	2.3	6

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37	Study of the relationship between magnetic anisotropy and composition ratio of Fe oxide to Fe at CoFeB/MgO film interface. <i>Applied Surface Science</i> , 2022, 585, 152697.	6.1	6
38	Magnetic property and recording performance of chemical deposition CoP thin films. <i>Rare Metals</i> , 2012, 31, 260-263.	7.1	5
39	Universal Magnetic Hall Circuit Based on Paired Spin Heterostructures. <i>Advanced Electronic Materials</i> , 2015, 1, 1400054.	5.1	5
40	Thickness-dependent electronic structure modulation of ferromagnetic films on shape memory alloy substrates based on a pure strain effect. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	5
41	Construction of FeN alloy films with ultra-strong magnetism and tunable magnetic anisotropy for spintronic application. <i>Journal of Alloys and Compounds</i> , 2017, 725, 32-40.	5.5	5
42	Synthesis of L10-FePt perpendicular films with controllable coercivity and intergranular exchange coupling by interfacial microstructure control. <i>Journal of Applied Physics</i> , 2010, 107, 123911.	2.5	4
43	Study of low-temperature ordering and crystal structure in FePtBi/Au nanocomposite films. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 145-149.	2.3	4
44	Enhancement of anisotropic magnetoresistance in MgO/NiFe/MgO trilayers via NiFe nanoparticles in MgO layers. <i>Journal of Applied Physics</i> , 2012, 111, 123903.	2.5	4
45	Synthesis and property tunability of interparticle exchange-decoupled L10-FePt: Au/Fe perpendicular ECC films. <i>Journal of Alloys and Compounds</i> , 2014, 590, 289-293.	5.5	4
46	Influence of electric field on the microstructures and magnetic softness of FeNi nanoparticle films. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	4
47	Stabilizing the Fermi Level of Cr-Doped Magnetic Topological Insulators by Al Passivation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3823-3828.	3.1	4
48	Multi-resistance state tuned by interfacial active Pt layer in a perpendicular Hall balance. <i>Applied Surface Science</i> , 2020, 521, 146475.	6.1	4
49	Manipulation of the magnetic exchange interaction in SmCo films with high thermal stability by controlling phase transformation. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 125-129.	2.3	3
50	Tunable Giant Anomalous Hall Angle in Perpendicular Multilayers by Interfacial Orbital Hybridization. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24751-24756.	8.0	3
51	High annealing tolerance and the microstructure study in perpendicular magnetized MgO/CoFeB/MgO structures with thin W spacer layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 121-125.	2.3	3
52	Bulk defects induced coercivity modulation of Co thin film based on a Ta/Bi double buffer layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166388.	2.3	3
53	Enhanced soft magnetic properties in CoZrTa(B) thin film with improving amorphous structure via introducing B atoms. <i>AIP Advances</i> , 2020, 10, 065109.	1.3	3
54	Tailoring the magnetic properties of sputtered amorphous CoZrTa/metal-oxide (MO) by interfacial oxygen migration. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	3

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55	Enhancement of perpendicular magnetic anisotropy of ferromagnet/oxide heterointerface by an oxygen-dependent orbital modulation. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	3
56	X-ray photoelectron spectroscopy and positron annihilation spectroscopy analysis of surfactant affected FePt spintronic films. <i>Applied Surface Science</i> , 2014, 308, 408-413.	6.1	2
57	Dynamical mechanism for coercivity tunability in the electrically controlled FePt perpendicular films with small grain size. <i>Journal of Applied Physics</i> , 2014, 115, 023906.	2.5	2
58	Study of [Co/Ni]N/ [Co/Pt]N-based spin valves with perpendicular magnetic anisotropy. <i>Integrated Ferroelectrics</i> , 2016, 169, 153-160.	0.7	2
59	The effect of the Ta spacer on the interfacial microstructures and magnetic properties of MTJs with double MgO-barrier. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1152-1158.	5.5	2
60	Enhanced negative magnetoresistance near the charge neutral point in Cr doped topological insulator. <i>RSC Advances</i> , 2021, 11, 13964-13969.	3.6	2
61	Different oxygen migration behaviors at CoFe/MgO and CoFe/HfO <sub>2</sub> interfaces and their effects on the magnetic anisotropy. <i>AIP Advances</i> , 2022, 12, 015222.	1.3	2
62	Tailoring the electronic properties of nickel silicide by interfacial modification. <i>AIP Advances</i> , 2022, 12, 075112.	1.3	2
63	Tunable PMA and Interfacial Microstructure Induced by a Hf(HfO <sub>2</sub> ) Interfacial Spacer in MTJs with Two MgO Layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900089.	1.8	1
64	Tuning magnetic anisotropy and magnetization switching in FeN ferromagnetic films by crystal regulation. <i>Thin Solid Films</i> , 2020, 709, 138231.	1.8	1
65	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
66	Investigation on high magnetoresistance Ni <sub>0.81</sub> Fe <sub>0.19</sub> films grown on (Ni <sub>0.81</sub> Fe <sub>0.19</sub> ) <sub>1-x</sub> Crx underlayers. <i>Science Bulletin</i> , 2003, 48, 1087-1089.	1.7	0
67	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
68	Micromagnetic analysis of L10-FePt/Au nanocomposite films. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 245001.	2.8	0
69	Effects of different Pt intercalation locations on the transport properties of spin-polarized electrons in NiFe films. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 354, 81-84.	2.3	0
70	The effect of inserted layers on the anomalous Hall effect and perpendicular magnetic anisotropy in Ta/CoFeB/MgO heterostructures. <i>AIP Advances</i> , 2018, 8, 075103.	1.3	0
71	Regulating the magnetic anisotropy by Hf thickness and heat treatment in Pt/Co/Hf films. <i>Current Applied Physics</i> , 2022, 34, 29-35.	2.4	0
72	Orbit-Engineered Anisotropic Magnetoresistive Effect for Constructing a Magnetic Sensor with Ultrahigh Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .	8.0	0