Hong-Guang Piao

List of Publications by Year in descending order

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567281 713466 85 638 15 21 citations h-index g-index papers 85 85 85 867 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Control of vortex circulation in bistable ultra-small ferromagnetic nanodisk. Journal of Magnetism and Magnetic Materials, 2022, 551, 169092.	2.3	1
2	Magnetocaloric effect in Y-doped La0.6Ca0.4MnO3 enhanced by Griffiths phase and re-entrance of first-order phase transition. Current Applied Physics, 2022, 42, 7-21.	2.4	2
3	Monolayer Mo2B: A non-magnetic metal and potential application as anode material for ion batteries and catalyst for hydrogen evolution. Applied Surface Science, 2021, 538, 148026.	6.1	10
4	Control of magnetic vortex circulation in one-side-flat nanodisk pairs by in-plane magnetic filed. Wuli Xuebao/Acta Physica Sinica, 2021, .	0.5	1
5	Dynamic magnetic properties of Ni2FeGa Heusler alloy nanoparticles. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	2
6	Unidirectional switching of magnetic vortex core in a nanocavity mediated nanodisk: Looking for a reliable low-power-driven and fast switching in terms of geometric parameters. Journal of Magnetism and Magnetic Materials, 2021, 527, 167758.	2.3	5
7	Magnetocaloric effect in Ba-doped LaCoO3 cobaltites showing second-order phase transitions. Journal of Magnetism and Magnetic Materials, 2021, 539, 168378.	2.3	7
8	Nano-magnetic tunnel junctions controlled by electric field for straintronics. Nanoscale, 2021, 13, 16113-16121.	5.6	1
9	Using Dipole Interaction to Achieve Nonvolatile Voltage Control of Magnetism in Multiferroic Heterostructures. Advanced Materials, 2021, 33, e2105902.	21.0	11
10	Highly Efficient Magnetic Propulsion of NiFe Nanorod-Based Miniature Swimmers in Three Dimensions. ACS Applied Materials & Dimensions. ACS Applied Materials & Dimensions.	8.0	3
11	Nanocavity-Mediated Fast Magnetic Vortex Core In-Situ Switching by Local Magnetic Field. Chinese Physics Letters, 2021, 38, 127501.	3.3	2
12	Intriguing Hysteresis Dynamics in Ultrafast Photoâ€Induced Magnetization. Physica Status Solidi (B): Basic Research, 2020, 257, 1900307.	1.5	3
13	Induced magnetic anisotropy of Ni42Co8Mn39Sn11 Heusler alloy under magnetic-field-annealing. Journal of Magnetism and Magnetic Materials, 2020, 495, 165843.	2.3	6
14	Study on magnetic and electrical properties of CoFeTaBO films with different oxygen content based on two-state model. Journal of Magnetism and Magnetic Materials, 2020, 515, 167285.	2.3	0
15	Cherenkov-type three-dimensional breakdown behavior of the Bloch-point domain wall motion in the cylindrical nanowire. Applied Physics Letters, 2020, 117, 062402.	3.3	10
16	Effect of annealing on magnetic and magnetoresistance characteristics of Gd/CoFeTaB multilayer film. Journal of Magnetism and Magnetic Materials, 2020, 516, 167334.	2.3	5
17	Ultrafast dynamics of exchange stiffness in Co/Pt multilayer. Communications Physics, 2020, 3, .	5.3	15
18	The effect of magnetic field pretreatment on the corrosion behavior of carbon steel in static seawater. RSC Advances, 2020, 10, 2060-2066.	3.6	11

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19	Periodic vortex core switching in curved magnetic nanodisk. Journal of Magnetism and Magnetic Materials, 2020, 502, 166481.	2.3	9
20	Role of non-thermal electrons in ultrafast spin dynamics of ferromagnetic multilayer. Scientific Reports, 2020, 10, 6355.	3.3	6
21	Asymmetric dynamic behaviors of magnetic domain wall in trapezoid-cross-section nanostrip*. Chinese Physics B, 2020, 29, 097502.	1.4	4
22	Unidirectional switching of magnetic vortex core confined in a cylindrical nanocavity. Japanese Journal of Applied Physics, 2019, 58, 100909.	1.5	2
23	Magnetically Powered Shape‶ransformable Liquid Metal Micromotors. Small, 2019, 15, e1905446.	10.0	36
24	Micromagnetic simulation of fast GHz gyromotion of magnetic vortex core in Permalloy disk with antidot. AIP Conference Proceedings, 2019, , .	0.4	0
25	Spin Hall magnetoresistance in Co2MnSn/lrMn/Pt heterostructures. Journal of Magnetism and Magnetic Materials, 2019, 477, 62-67.	2.3	1
26	Magnetically Powered Annelidâ€Wormâ€Like Microswimmers. Small, 2018, 14, e1704546.	10.0	29
27	Tuning the magnetic phase transition and the magnetocaloric properties of La0.7Ca0.3MnO3 compounds through Sm-doping. AIP Advances, 2018, 8, 056419.	1.3	10
28	Magnetic and magnetocaloric properties in second-order phase transition La 1â^'x K x MnO 3 and their composites. Physica B: Condensed Matter, 2018, 532, 166-171.	2.7	19
29	Field-controllable injection of virtual magnetic domain wall in discrete magnetic nanodot chains. Current Applied Physics, 2018, 18, 50-54.	2.4	0
30	Fabrication and magnetic properties of structure-tunable Co2FeGa-SiO2 Heusler nanocompounds. AIP Advances, 2018, 8, .	1.3	12
31	Influence of the two boundaries of the Pt layer on spin current transportation by spin Hall magnetoresistance. Journal of Magnetism and Magnetic Materials, 2018, 465, 585-589.	2.3	0
32	Suppression of Walker breakdown in gapped magnetic nanowires. Journal of Applied Physics, 2018, 124,	2.5	4
33	A Coexistence of Short- and Long-Range Ferromagnetic Interactions in La _{1â€"x} K _x MnO ₃ Compounds. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	0
34	Spatially Resolved Ferroelectric Domain-Switching-Controlled Magnetism in Co ₄₀ Fe ₄₀ B ₂₀ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} <td>o>T&s∡osub></td> <td>0.340/sub>O<</td>	o>T&s∡osub>	0.340/sub>O<
35	Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foam–Toward High-Performance Magnetic Field Sensors. ACS Applied Materials & Samp; Interfaces, 2017, 9, 1891-1898.	8.0	27
36	Critical properties around the ferromagnetic-paramagnetic phase transition in La0.7Ca0.3-xAxMnO3 compounds (AÂ= Sr, Ba and xÂ= 0, 0.15, 0.3). Journal of Alloys and Compounds, 2017, 725, 484-495.	5.5	20

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37	Critical behavior near the ferromagnetic-paramagnetic transformation in the austenite phase of Ni43Mn46Sn8X3 (X = In and Cr) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2017, 443, 171-178.	2.3	6
38	Large Magnetoresistance in Silicon at Room Temperature Induced by Onsite Coulomb Interaction. Advanced Electronic Materials, 2017, 3, 1700186.	5.1	4
39	Ratchet effect of virtual domain wall motion in discrete magnetic nanodot chains. Applied Physics Express, 2017, 10, 125001.	2.4	2
40	Spin-valley-dependent transport and giant tunneling magnetoresistance in silicene with periodic electromagnetic modulations. Chinese Physics B, 2017, 26, 127303.	1.4	1
41	Research Group Status of Magnetism and Magnetic Materials in China. Journal of the Korean Magnetics Society, 2017, 27, 253-259.	0.0	0
42	Collective Magnetoresistance Effect of Ferromagnetic Microparticle Suspension. , 2016, , .		0
43	Magnetic Domain Wall Transfer in Discrete Magnetic Nanodot Chains. , 2016, , .		0
44	Virtual magnetic domain wall motion in discrete magnetic nanodot chains. AIP Advances, 2016, 6, 095006.	1.3	1
45	Collective spin excitation in finite size array of patterned magnonic crystals. Physica B: Condensed Matter, 2016, 486, 24-28.	2.7	2
46	Spin Hall magnetoresistance in Co ₂ FeSi/Pt thin films: dependence on Pt thickness and temperature. Journal of Physics Condensed Matter, 2016, 28, 476006.	1.8	5
47	Magnetic and magnetocaloric properties of the first-order phase transition in Sm0.5+x Sr0.5â^'x MnO3 compounds. Journal of the Korean Physical Society, 2016, 69, 316-322.	0.7	0
48	Programmable Logic Based on Large Magnetoresistance of Germanium. Chinese Physics Letters, 2016, 33, 047501.	3.3	0
49	The dependence of electromagnetic noise suppress characteristics on magnetic and high-frequency properties of FeCoSiO thin films. Journal of Alloys and Compounds, 2016, 668, 107-112.	5.5	3
50	Correlation Between Spin Configuration and Magnetostatic Interaction of Ferromagnetic Nanocubes. Journal of Nanoscience and Nanotechnology, 2015, 15, 9234-9239.	0.9	1
51	Enhanced linear magnetoresistance of germanium at room temperature due to surface imperfection. Applied Physics Letters, 2015, 106, .	3.3	12
52	Selective Behavior of Spin Wave Propagation in Asymmetrically Modulated Ferromagnetic Nanowires. IEEE Transactions on Magnetics, 2015, 51, 1-6.	2.1	5
53	RC-Circuit-Like Dynamic Characteristic of the Magnetic Domain Wall in Flat Ferromagnetic Nanowires. Chinese Physics Letters, 2015, 32, 087502.	3.3	6
54	Magnetically Actuated Wormlike Nanomotors for Controlled Cargo Release. ACS Applied Materials & Samp; Interfaces, 2015, 7, 26017-26021.	8.0	42

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55	Magnetic field controllable nonvolatile resistive switching effect in silicon device. Applied Physics Letters, 2014, 104, 243511.	3.3	16
56	Large positive magnetoresistance in germanium. Journal of Applied Physics, 2014, 116, .	2.5	17
57	Enhanced low field magnetoresistance in germanium and silicon-diode combined device at room temperature. Applied Physics Letters, 2014, 105, 193508.	3.3	15
58	Current Induced Non-Volatile Resistive Switching Effect in Silicon Devices with Large Magnetoresistance. Chinese Physics Letters, 2014, 31, 077201.	3.3	0
59	Equilibrium position dependent magnetic vortex dip dynamics under rotating magnetic fields. Journal of Applied Physics, 2014, 115, .	2.5	4
60	Magnetic-field-tuned Insulator to Conductor Transition in Magnetorheological Suspension. Journal of Magnetics, 2014, 19, 345-348.	0.4	4
61	Diode assisted giant positive magnetoresistance in n-type GaAs at room temperature. Journal of Applied Physics, 2013, 114, .	2.5	10
62	Oscillatory transformative domain wall inner structure of the depinning domain wall around a notched ferromagnetic wire. Journal of the Korean Physical Society, 2013, 63, 654-658.	0.7	4
63	Position-dependent spontaneous motion of the magnetic domain wall in ferromagnetic nanowires. Journal of the Korean Physical Society, 2013, 62, 288-291.	0.7	1
64	Intrinsic pinning behavior and propagation onset of three-dimensional Bloch-point domain wall in a cylindrical ferromagnetic nanowire. Applied Physics Letters, 2013, 102, .	3.3	32
65	Stepwise behavior of the core trajectory in magnetic vortex dynamics under an alternating-current magnetic field. Journal of Applied Physics, 2013, 113, .	2.5	1
66	Dynamics of Magnetic Vortex Core Reversal under Pulsed Magnetic Fields. New Physics: Sae Mulli, 2013, 63, 666-669.	0.1	0
67	Micromagnetic Study of Forced Oscillation of Magnetic Domain Wall in Ferromagnetic Nanowires with Variation of Damping Constant. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2795-2798.	1.8	2
68	Condition of the ratchet effect of a magnetic domain wall motion under an asymmetric potential energy. Journal of Applied Physics, 2012, 111, 07D301.	2.5	5
69	Three-Dimensional Dynamics of Magnetic Vortex Core in a Nanodisk. Journal of the Korean Magnetics Society, 2012, 22, 195-199.	0.0	1
70	Nonlinear motion of magnetic vortex under alternating-current magnetic field: Dynamic correction of a gyrovector and a damping tensor of the Thiele's equation. Applied Physics Letters, 2011, 99, .	3.3	7
71	Interaction of Antiparallel Transverse Domain Walls in Ferromagnetic Nanowires. Journal of Nanoscience and Nanotechnology, 2011, 11, 6237-6240.	0.9	1
72	Translational Positioning of a Magnetic Domain Wall in Ferromagnetic Nanowires Using a Stray Field Filter. Journal of Nanoscience and Nanotechnology, 2011, 11, 6122-6125.	0.9	1

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73	Ratchet effect of the domain wall by asymmetric magnetostatic potentials. Applied Physics Letters, 2011, 99, 192512.	3.3	20
74	Calculation of the Gyrovector and the Damping Tensor of a Magnetic Vortex Core Based on the Thiele Equation. New Physics: Sae Mulli, 2011, 61, 601-604.	0.1	0
75	Three-Dimensional Spin Configuration of Ferromagnetic Nanocubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 7212-7216.	0.9	4
76	Micromagnetic Simulation of Damped Oscillatory Behavior of Domain Wall Propagation in Sinusoidal Ferromagnetic Nanowire. IEEE Transactions on Magnetics, 2010, 46, 224-227.	2.1	4
77	Spontaneous Domain Wall Motion at Zero External Magnetic Field in Ferromagnetic Nanowire. IEEE Transactions on Magnetics, 2010, 46, 217-219.	2.1	9
78	Ratchet Effect of Domain Wall Motion by GHz AC Magnetic Field in Asymmetric Sawtooth-Shaped Ferromagnetic Nanowires. IEEE Transactions on Magnetics, 2010, 46, 1844-1847.	2.1	11
79	Asymmetric ground state spin configuration of transverse domain wall on symmetrically notched ferromagnetic nanowires. Applied Physics Letters, 2010, 97, 022511.	3.3	19
80	Multibits magnetic recording using a ferromagnetic element with shifted vortex core position. Applied Physics Letters, 2009, 94, .	3.3	8
81	Domain Wall Propagation in Wavy Ferromagnetic Nanowire. IEEE Transactions on Magnetics, 2009, 45, 3926-3929.	2.1	18
82	Magnetic domain wall collision around the Walker breakdown in ferromagnetic nanowires. Journal of Applied Physics, 2009, 106, .	2.5	17
83	Suppression of Magnetization Ringing After Domain Wall Collision Studied by Micromagnetic Simulation. Journal of Magnetics, 2008, 13, 120-123.	0.4	1
84	The Effect of Electron Screening on the \hat{l}^2 -decay Rate in Stellar Interior. Chinese Astronomy and Astrophysics, 2007, 31, 229-235.	0.3	1
85	Preparation and magnetic properties of cylindrical permalloy nanowire arrays. MRS Communications, 0, , 1.	1.8	1