

Honhmei Feng

List of Publications by Year in descending order

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all docs

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docs citations

67
times ranked

1936
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin eigenmodes of skyrmion bags. Journal Physics D: Applied Physics, 2022, 55, 185001.	2.8	6
2	Direct Imaging of Resonant Phonon-Magnon Coupling. Physical Review Applied, 2021, 15, .	3.8	11
3	Commensurability between Element Symmetry and the Number of Skyrmions Governing Skyrmion Diffusion in Confined Geometries. Advanced Functional Materials, 2021, 31, 2010739.	14.9	26
4	Thickness-dependent magnetic properties of Ni ₆₅ Fe ₂₈ Ga ₇ films prepared by magnetron co-sputtering. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
5	Angular dependence of spin wave resonance in FeNi/MgO granular film. Applied Physics Letters, 2021, 118, .	3.3	2
6	The unusual double-shifted magnetization curves in an exchange-biased perpendicular Co/IrMn system. Applied Physics Letters, 2021, 118, .	3.3	5
7	Dynamics of skyrmion bags driven by the spin-orbit torque. Applied Physics Letters, 2020, 117, .	3.3	16
8	Phonon Transport Controlled by Ferromagnetic Resonance. Physical Review Applied, 2020, 13, .	3.8	28
9	Radio Frequency Mixer Based on Magnetic Skyrmion. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000249.	2.4	2
10	Giant Magnetoimpedance Effect Modified by Transverse Shape Anisotropy in Fe-Based Amorphous Ribbon. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	2
11	High frequency properties of [Co/Pd] _n /Py multilayer films under different temperatures. Journal of Applied Physics, 2019, 126, 053901.	2.5	3
12	Investigation into the microstructure and soft magnetic property of co-sputtering FeNi/MgO nanogranular films. Journal of Materials Science, 2019, 54, 14189-14196.	3.7	9
13	Magnetic properties of isolated skyrmion under the in-plane magnetic field and anisotropy gradient. Journal of Applied Physics, 2019, 126, 063904.	2.5	1
14	Current-induced motion of twisted skyrmions. Applied Physics Letters, 2019, 114, .	3.3	18
15	Spin Rectification dc Voltage Spectra via Sweeping Frequency. Physica Status Solidi (B): Basic Research, 2019, 256, 1800401.	1.5	0
16	Array of Synchronized Nano-Oscillators Based on Repulsion between Domain Wall and Skyrmion. Physical Review Applied, 2018, 9, .	3.8	55
17	Enhancement of damping in FeNi film due to two-magnon scattering effect. Applied Physics Letters, 2018, 113, .	3.3	8
18	Roles of Joule heating and spin-orbit torques in the direct current induced magnetization reversal. Scientific Reports, 2018, 8, 12959.	3.3	25

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19	Influence of Deposition Cycle and Magnetic Annealing on High-Frequency Magnetic Properties of the [Co90Fe10/Ta] <i>n</i> Multilayer Thin Films. IEEE Transactions on Magnetics, 2018, 54, 1-7.	2.1	2
20	Investigation on the structures and magnetic properties of carbon or nitrogen doped cobalt ferrite nanoparticles. Scientific Reports, 2018, 8, 7916.	3.3	15
21	Current-Induced Domain Wall Motion and Tilting in Perpendicularly Magnetized Racetracks. Nanoscale Research Letters, 2018, 13, 238.	5.7	11
22	Estimating the In-Plane Magnetic Anisotropy and Saturation Magnetization of Magnetic Films. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	5
23	Static and Dynamic Properties of Nanowire/Permalloy Composite Films. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	1
24	Dynamics of Dzyaloshinskii Domain Walls Driven by Spin Hall Effect in the Presence of Magnetic Fields. Spin, 2017, 07, 1740004.	1.3	0
25	Effect of inserting a non-metal C layer on the spin-orbit torque induced magnetization switching in Pt/Co/Ta structures with perpendicular magnetic anisotropy. Applied Physics Letters, 2017, 110, .	3.3	20
26	Topological trajectories of a magnetic skyrmion with an in-plane microwave magnetic field. Journal of Applied Physics, 2017, 122, .	2.5	11
27	Skyrmion-based multi-channel racetrack. Applied Physics Letters, 2017, 111, .	3.3	30
28	Tuning high frequency magnetic properties and damping of FeGa, FeGaN and FeGaB thin films. AIP Advances, 2017, 7, .	1.3	19
29	Magnetic anisotropy and high-frequency property of flexible FeCoTa films obliquely deposited on a wrinkled topography. Scientific Reports, 2017, 7, 2837.	3.3	23
30	A facile strategy for synthesis of spinel ferrite nano-granules and their potential applications. RSC Advances, 2016, 6, 66795-66802.	3.6	10
31	Controllable magnetic and magnetostrictive properties of FeGa films electrodeposited on curvature substrates. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	18
32	High saturation magnetization of $\hat{\Gamma}^3$ -Fe2O3 nano-particles by a facile one-step synthesis approach. Scientific Reports, 2016, 6, 32360.	3.3	125
33	Dependence of phase configurations, microstructures and magnetic properties of iron-nickel (Fe-Ni) alloy nanoribbons on deoxidization temperature in hydrogen. Scientific Reports, 2016, 6, 37701.	3.3	31
34	Annealing influence on the exchange stiffness constant of Permalloy films with stripe domains. Journal Physics D: Applied Physics, 2016, 49, 265002.	2.8	20
35	Influence of NiZn-Ferrite Spacers on Giant Magnetoimpedance Effect in FeNi/Cu/FeNi Nano Films. Journal of Nanoscience and Nanotechnology, 2016, 16, 8142-8145.	0.9	0
36	Nonmetal sulfur-doped coral-like cobalt ferrite nanoparticles with enhanced magnetic properties. Journal of Materials Chemistry C, 2016, 4, 951-957.	5.5	24

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37	Improved coercivity and considerable saturation magnetization of cobalt ferrite (CoFe ₂ O ₄) nanoribbons synthesized by electrospinning. <i>Journal of Materials Science</i> , 2016, 51, 885-892.	3.7	21
38	Width-controlled M-type hexagonal strontium ferrite (SrFe ₁₂ O ₁₉) nanoribbons with high saturation magnetization and superior coercivity synthesized by electrospinning. <i>Scientific Reports</i> , 2015, 5, 15089.	3.3	65
39	A short-circuited coplanar waveguide to measure the permeability of magnetic thin films: Comparison with short-circuited microstrip line. <i>Review of Scientific Instruments</i> , 2015, 86, 114705.	1.3	15
40	Static property and current-driven precession of 2 π -vortex in nano-disk with Dzyaloshinskii-Moriya interaction. <i>AIP Advances</i> , 2015, 5, .	1.3	17
41	Top-down control of dynamic anisotropy in permalloy thin films with stripe domains. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465001.	2.8	26
42	Vortex Dynamics in Magnetic Nanodisks With a Ring of Magnetic Defects. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	0
43	Critical Current Density and Ferromagnetic Resonance Affected by Perpendicular Anisotropy in Spin Valve. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-3.	2.1	0
44	Enhanced GMI effect in NiZn-ferrite-modified Fe-based amorphous ribbons. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1277-1281.	2.3	13
45	Effect of Dzyaloshinskii-Moriya interaction on the magnetic vortex oscillator driven by spin-polarized current. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	16
46	A novel method to fabricate CoFe ₂ O ₄ /SrFe ₁₂ O ₁₉ composite ferrite nanofibers with enhanced exchange coupling effect. <i>Nanoscale Research Letters</i> , 2015, 10, 131.	5.7	40
47	Magnetic Properties and Microstructure Investigation of FeNi Films With Step-Height by Nano-MOKE. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	2
48	Fabrication and characterization of FePt magnetic nanofibers via electrospinning technique. <i>Journal of Materials Science</i> , 2015, 50, 7218-7226.	3.7	4
49	Efficient photocatalytic degradation of acid fuchsin in aqueous solution using separate porous tetragonal-CuFe ₂ O ₄ nanotubes. <i>Journal of Hazardous Materials</i> , 2015, 284, 163-170.	12.4	76
50	Spin-dependent Transport Properties of CrO ₂ Micro Rod. <i>Nano-Micro Letters</i> , 2014, 6, 365-371.	27.0	14
51	An induction method to calculate the complex permeability of soft magnetic films without a reference sample. <i>Review of Scientific Instruments</i> , 2014, 85, 054705.	1.3	59
52	The influence of magnetic heat treatment on morphology, structure, magnetic properties of Fe-Co-P alloy films. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 359-363.	2.3	8
53	Propagating and reflecting of spin wave in permalloy nanostrip with 360 \hat{A} domain wall. <i>Journal of Applied Physics</i> , 2014, 115, 013908.	2.5	8
54	Phase locking of vortex cores in two coupled magnetic nanopillars. <i>AIP Advances</i> , 2014, 4, .	1.3	1

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55	Thermo-electric effect in a nano-sized crossed Permalloy/Cu junction under high bias current. Applied Physics Letters, 2013, 103, 132408.	3.3	13
56	Interface coupling-induced enhancement of magnetoimpedance effect in heterogeneous nanobrush by adjusting textures of Co nanowires. Nanoscale Research Letters, 2013, 8, 471.	5.7	4
57	Analyses on multiple resonance behaviors and microwave reflection loss in magnetic Co microflowers. Physica Status Solidi (B): Basic Research, 2012, 249, 575-580.	1.5	69
58	Preparation and characterization of Ba ₂ Co ₂ Fe ₁₂ O ₂₂ ferrite via glucose sol-gel method. Journal of Sol-Gel Science and Technology, 2012, 61, 39-43.	2.4	4
59	Tailoring coercivity and magnetic anisotropy of Co nanowire arrays by microstructure. Journal of Materials Science, 2011, 46, 7545-7550.	3.7	20
60	The microstructure and magnetic properties of Ni _{0.4} Zn _{0.6} Fe ₂ O ₄ films prepared by spin-coating method. Journal of Sol-Gel Science and Technology, 2011, 58, 501-506.	2.4	12
61	Influence of saccharides chelating agent on particle size and magnetic properties of Co ₂ Z hexaferrite synthesized by sol-gel method. Journal of Sol-Gel Science and Technology, 2011, 60, 41-47.	2.4	12
62	Microwave absorption properties of the hierarchically branched Ni nanowire composites. Journal of Applied Physics, 2009, 105, .	2.5	75
63	Structure and ⁵⁷ Fe conversion electron Mössbauer spectroscopy study of Mn-Zn ferrite nanocrystal thin films by electroless plating in aqueous solution. Science Bulletin, 2008, 53, 321-328.	1.7	9
64	Microwave absorption properties of the Ni nanowires composite. Journal Physics D: Applied Physics, 2008, 41, 235005.	2.8	82
65	Micromagnetic simulation of the magnetic spectrum of ferromagnetic nanowire. Journal of Applied Physics, 2008, 103, 013910.	2.5	27
66	Microwave permeability spectra of flake-shaped FeCuNbSiB particle composites. Journal of Applied Physics, 2008, 103, .	2.5	98
67	Synthesis and characterization of LaFeO ₃ nano particles. Journal of Materials Science Letters, 2002, 21, 1059-1062.	0.5	19