

Honhmei Feng

List of Publications by Year in descending order

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67
papers

1,412
citations

361413

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h-index

345221

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all docs

67
docs citations

67
times ranked

1936
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#	ARTICLE	IF	CITATIONS
1	High saturation magnetization of $\hat{\text{Fe}}^3\text{-Fe}_2\text{O}_3$ nano-particles by a facile one-step synthesis approach. <i>Scientific Reports</i> , 2016, 6, 32360.	3.3	125
2	Microwave permeability spectra of flake-shaped FeCuNbSiB particle composites. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	98
3	Microwave absorption properties of the Ni nanowires composite. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 235005.	2.8	82
4	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
5	Microwave absorption properties of the hierarchically branched Ni nanowire composites. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	75
6	Analyses on multiple resonance behaviors and microwave reflection loss in magnetic Co microflowers. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 575-580.	1.5	69
7	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
8	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
9	Array of Synchronized Nano-Oscillators Based on Repulsion between Domain Wall and Skyrmion. <i>Physical Review Applied</i> , 2018, 9, .	3.8	55
10	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
11	Dependence of phase configurations, microstructures and magnetic properties of iron-nickel (Fe-Ni) alloy nanoribbons on deoxidization temperature in hydrogen. <i>Scientific Reports</i> , 2016, 6, 37701.	3.3	31
12	Skyrmion-based multi-channel racetrack. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	30
13	Phonon Transport Controlled by Ferromagnetic Resonance. <i>Physical Review Applied</i> , 2020, 13, .	3.8	28
14	Micromagnetic simulation of the magnetic spectrum of ferromagnetic nanowire. <i>Journal of Applied Physics</i> , 2008, 103, 013910.	2.5	27
15	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
16	Commensurability between Element Symmetry and the Number of Skyrmions Governing Skyrmion Diffusion in Confined Geometries. <i>Advanced Functional Materials</i> , 2021, 31, 2010739.	14.9	26
17	Roles of Joule heating and spin-orbit torques in the direct current induced magnetization reversal. <i>Scientific Reports</i> , 2018, 8, 12959.	3.3	25
18	Nonmetal sulfur-doped coral-like cobalt ferrite nanoparticles with enhanced magnetic properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 951-957.	5.5	24

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19	Magnetic anisotropy and high-frequency property of flexible FeCoTa films obliquely deposited on a wrinkled topography. <i>Scientific Reports</i> , 2017, 7, 2837.	3.3	23
20	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
21	Tailoring coercivity and magnetic anisotropy of Co nanowire arrays by microstructure. <i>Journal of Materials Science</i> , 2011, 46, 7545-7550.	3.7	20
22	Annealing influence on the exchange stiffness constant of Permalloy films with stripe domains. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 265002.	2.8	20
23	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. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	20
24	Synthesis and characterization of LaFeO ₃ nano particles. <i>Journal of Materials Science Letters</i> , 2002, 21, 1059-1062.	0.5	19
25	Tuning high frequency magnetic properties and damping of FeGa, FeGaN and FeGaB thin films. <i>AIP Advances</i> , 2017, 7, .	1.3	19
26	Controllable magnetic and magnetostrictive properties of FeGa films electrodeposited on curvature substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	18
27	Current-induced motion of twisted skyrmions. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	18
28	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
29	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
30	Dynamics of skyrmion bags driven by the spin-orbit torque. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	16
31	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
32	Investigation on the structures and magnetic properties of carbon or nitrogen doped cobalt ferrite nanoparticles. <i>Scientific Reports</i> , 2018, 8, 7916.	3.3	15
33	Spin-dependent Transport Properties of CrO ₂ Micro Rod. <i>Nano-Micro Letters</i> , 2014, 6, 365-371.	27.0	14
34	Thermo-electric effect in a nano-sized crossed Permalloy/Cu junction under high bias current. <i>Applied Physics Letters</i> , 2013, 103, 132408.	3.3	13
35	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
36	The microstructure and magnetic properties of Ni _{0.4} Zn _{0.6} Fe ₂ O ₄ films prepared by spin-coating method. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 501-506.	2.4	12

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37	Influence of saccharides chelating agent on particle size and magnetic properties of Co ₂ Z hexaferrite synthesized by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 41-47.	2.4	12
38	Topological trajectories of a magnetic skyrmion with an in-plane microwave magnetic field. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	11
39	Current-Induced Domain Wall Motion and Tilting in Perpendicularly Magnetized Racetracks. <i>Nanoscale Research Letters</i> , 2018, 13, 238.	5.7	11
40	Direct Imaging of Resonant Phonon-Magnon Coupling. <i>Physical Review Applied</i> , 2021, 15, .	3.8	11
41	A facile strategy for synthesis of spinel ferrite nano-granules and their potential applications. <i>RSC Advances</i> , 2016, 6, 66795-66802.	3.6	10
42	Structure and ⁵⁷ Fe conversion electron Mössbauer spectroscopy study of Mn-Zn ferrite nanocrystal thin films by electroless plating in aqueous solution. <i>Science Bulletin</i> , 2008, 53, 321-328.	1.7	9
43	Investigation into the microstructure and soft magnetic property of co-sputtering FeNi-MgO nanogranular films. <i>Journal of Materials Science</i> , 2019, 54, 14189-14196.	3.7	9
44	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
45	Propagating and reflecting of spin wave in permalloy nanostrip with 360° domain wall. <i>Journal of Applied Physics</i> , 2014, 115, 013908.	2.5	8
46	Enhancement of damping in FeNi film due to two-magnon scattering effect. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	8
47	Spin eigenmodes of skyrmion bags. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 185001.	2.8	6
48	Estimating the In-Plane Magnetic Anisotropy and Saturation Magnetization of Magnetic Films. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	2.1	5
49	The unusual double-shifted magnetization curves in an exchange-biased perpendicular Co/IrMn system. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	5
50	Preparation and characterization of Ba ₂ Co ₂ Fe ₁₂ O ₂₂ ferrite via glucose sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 39-43.	2.4	4
51	Interface coupling-induced enhancement of magnetoimpedance effect in heterogeneous nanobrush by adjusting textures of Co nanowires. <i>Nanoscale Research Letters</i> , 2013, 8, 471.	5.7	4
52	Fabrication and characterization of FePt magnetic nanofibers via electrospinning technique. <i>Journal of Materials Science</i> , 2015, 50, 7218-7226.	3.7	4
53	High frequency properties of [Co/Pd] _n /Py multilayer films under different temperatures. <i>Journal of Applied Physics</i> , 2019, 126, 053901.	2.5	3
54	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

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55	Influence of Deposition Cycle and Magnetic Annealing on High-Frequency Magnetic Properties of the [Co ₉₀ Fe ₁₀ /Ta] <i>n</i> Multilayer Thin Films. IEEE Transactions on Magnetics, 2018, 54, 1-7.	2.1	2
56	Radio Frequency Mixer Based on Magnetic Skyrmion. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000249.	2.4	2
57	Giant Magnetoimpedance Effect Modified by Transverse Shape Anisotropy in Fe-Based Amorphous Ribbon. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	2
58	Angular dependence of spin wave resonance in FeNi/MgO granular film. Applied Physics Letters, 2021, 118, .	3.3	2
59	Phase locking of vortex cores in two coupled magnetic nanopillars. AIP Advances, 2014, 4, .	1.3	1
60	Static and Dynamic Properties of Nanowire/Permalloy Composite Films. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	1
61	Magnetic properties of isolated skyrmion under the in-plane magnetic field and anisotropy gradient. Journal of Applied Physics, 2019, 126, 063904.	2.5	1
62	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
63	Vortex Dynamics in Magnetic Nanodisks With a Ring of Magnetic Defects. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
64	Critical Current Density and Ferromagnetic Resonance Affected by Perpendicular Anisotropy in Spin Valve. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	0
65	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
66	Dynamics of Dzyaloshinskii Domain Walls Driven by Spin Hall Effect in the Presence of Magnetic Fields. Spin, 2017, 07, 1740004.	1.3	0
67	Spin Rectification dc Voltage Spectra via Sweeping Frequency. Physica Status Solidi (B): Basic Research, 2019, 256, 1800401.	1.5	0