

Senfu Zhang

List of Publications by Year in descending order

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37
papers

1,004
citations

567281

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all docs

38
docs citations

38
times ranked

1547
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise Tuning of Skyrmion Density in a Controllable Manner by Ion Irradiation. ACS Applied Materials & Interfaces, 2022, 14, 34011-34019.	8.0	8
2	Berry Phase Engineering in SrRuO ₃ /SrIrO ₃ /SrTiO ₃ Superlattices Induced by Band Structure Reconstruction. ACS Nano, 2021, 15, 5086-5095.	14.6	19
3	Chiral Helimagnetism and One-Dimensional Magnetic Solitons in a Cr-Intercalated Transition Metal Dichalcogenide. Advanced Materials, 2021, 33, e2101131.	21.0	40
4	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. Physical Review Letters, 2021, 127, 217201.	7.8	10
5	Competition between Chiral Energy and Chiral Damping in the Asymmetric Expansion of Magnetic Bubbles. ACS Applied Electronic Materials, 2021, 3, 4734-4742.	4.3	3
6	Thermal creation of skyrmions in ferromagnetic films with perpendicular anisotropy and Dzyaloshinskii-Moriya interaction. Journal of Magnetism and Magnetic Materials, 2020, 493, 165724.	2.3	10
7	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. Advanced Materials, 2020, 32, e1904815.	21.0	47
8	Néel-type skyrmion in WTe ₂ /Fe ₃ GeTe ₂ van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	12.8	208
9	Magnetotransport Mechanism of Individual Nanostructures via Direct Magnetoresistance Measurement in situ SEM. ACS Applied Materials & Interfaces, 2020, 12, 39798-39806.	8.0	1
10	Electron Beam Lithography of Magnetic Skyrmions. Advanced Materials, 2020, 32, e2003003.	21.0	30
11	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in Mn-Ni-Ca magnets. Applied Physics Letters, 2020, 116, .	3.3	8
12	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. Materials Horizons, 2020, 7, 2328-2335.	12.2	12
13	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. Science Advances, 2020, 6, eaay1876.	10.3	20
14	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. Applied Physics Letters, 2020, 116, 142402.	3.3	13
15	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. Applied Physics Letters, 2020, 116, .	3.3	9
16	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. ACS Nano, 2019, 13, 922-929.	14.6	43
17	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. Applied Physics Letters, 2018, 112, .	3.3	68
18	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. AIP Advances, 2018, 8, 055813.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Creation of a thermally assisted skyrmion lattice in Pt/Co/Ta multilayer films. Applied Physics Letters, 2018, 113, .	3.3	38
20	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe ₂ . Nature Communications, 2018, 9, 3990.	12.8	105
21	Writing skyrmions with a magnetic dipole. Journal of Applied Physics, 2018, 124, .	2.5	20
22	Determination of chirality and density control of Néel-type skyrmions with in-plane magnetic field. Communications Physics, 2018, 1, .	5.3	48
23	Characterizing the spin orbit torque field-like term in in-plane magnetic system using transverse field. Journal of Applied Physics, 2016, 120, 083908.	2.5	2
24	Effect of perpendicular magnetic field on bubble-like magnetic solitons driven by spin-polarized current with Dzyaloshinskii-Moriya interaction. Journal of Applied Physics, 2016, 120, 183901.	2.5	1
25	Current-induced 360° domain wall motion with Dzyaloshinskii-Moriya interaction. Journal Physics D: Applied Physics, 2016, 49, 175005.	2.8	3
26	Dynamic response for Dzyaloshinskii-Moriya interaction on bubble-like magnetic solitons driven by spin-polarized current. Journal Physics D: Applied Physics, 2016, 49, 195004.	2.8	4
27	Tunable Static and High-Frequency Magnetic Properties of FeCo Films by an Applied Magnetic Field. Science of Advanced Materials, 2016, 8, 1061-1065.	0.7	6
28	Static property and current-driven precession of 2π-vortex in nano-disk with Dzyaloshinskii-Moriya interaction. AIP Advances, 2015, 5, .	1.3	17
29	Vortex Dynamics in Magnetic Nanodisks With a Ring of Magnetic Defects. IEEE Transactions on Magnetism, 2015, 51, 1-4.	2.1	0
30	Current-induced magnetic skyrmions oscillator. New Journal of Physics, 2015, 17, 023061.	2.9	149
31	Effect of Dzyaloshinskii-Moriya interaction on the magnetic vortex oscillator driven by spin-polarized current. Journal of Applied Physics, 2015, 117, .	2.5	16
32	Nanoscale characterisation and magnetic properties of Co ₈₁ Cu ₁₉ /Cu multilayer nanowires. Journal of Materials Chemistry C, 2015, 3, 85-93.	5.5	22
33	Current-induced domain wall motion in nanostrip-nanobars system. Japanese Journal of Applied Physics, 2014, 53, 073001.	1.5	5
34	Propagating and reflecting of spin wave in permalloy nanostrip with 360° domain wall. Journal of Applied Physics, 2014, 115, 013908.	2.5	8
35	Phase locking of vortex cores in two coupled magnetic nanopillars. AIP Advances, 2014, 4, .	1.3	1
36	Current-induced collective motion of 180° and 360° domain walls in double nanowires system. Journal of Magnetism and Magnetic Materials, 2013, 347, 124-130.	2.3	6

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37	Tuning giant magnetoimpedance response of Fe _{75.5} Si _{13.5} B ₇ Nb ₃ Cu ₁ amorphous ribbon by laser ablation. Journal of Magnetism and Magnetic Materials, 2012, 324, 3189-3192.	2.3	2