Senfu Zhang

List of Publications by Year in descending order

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37	1,004	15	31
papers	citations	h-index	g-index
38	38	38	1547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	$N ilde{A}$ ©el-type skyrmion in WTe2/Fe3GeTe2 van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	12.8	208
2	Current-induced magnetic skyrmions oscillator. New Journal of Physics, 2015, 17, 023061.	2.9	149
3	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe2. Nature Communications, 2018, 9, 3990.	12.8	105
4	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. Applied Physics Letters, $2018,112,.$	3.3	68
5	Determination of chirality and density control of NÃ $@$ el-type skyrmions with in-plane magnetic field. Communications Physics, 2018, 1, .	5.3	48
6	Currentâ€Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. Advanced Materials, 2020, 32, e1904815.	21.0	47
7	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. ACS Nano, 2019, 13, 922-929.	14.6	43
8	Chiral Helimagnetism and Oneâ€Dimensional Magnetic Solitons in a Crâ€Intercalated Transition Metal Dichalcogenide. Advanced Materials, 2021, 33, e2101131.	21.0	40
9	Creation of a thermally assisted skyrmion lattice in Pt/Co/Ta multilayer films. Applied Physics Letters, 2018, 113, .	3.3	38
10	Electron Beam Lithography of Magnetic Skyrmions. Advanced Materials, 2020, 32, e2003003.	21.0	30
11	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
12	Writing skyrmions with a magnetic dipole. Journal of Applied Physics, 2018, 124, .	2.5	20
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	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
15	Static property and current-driven precession of 2Ï€-vortex in nano-disk with Dzyaloshinskii-Moriya interaction. AIP Advances, 2015, 5, .	1.3	17
16	Effect of Dzyaloshinskii-Moriya interaction on the magnetic vortex oscillator driven by spin-polarized current. Journal of Applied Physics, 2015, 117, .	2.5	16
17	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. Applied Physics Letters, 2020, 116, 142402.	3.3	13
18	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. Materials Horizons, 2020, 7, 2328-2335.	12.2	12

#	Article	lF	Citations
19	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
20	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. Physical Review Letters, 2021, 127, 217201.	7.8	10
21	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. Applied Physics Letters, 2020, 116, .	3.3	9
22	Propagating and reflecting of spin wave in permalloy nanostrip with $360 \hat{A}^\circ$ domain wall. Journal of Applied Physics, 2014, 115, 013908.	2.5	8
23	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in Mn–Ni–Ga magnets. Applied Physics Letters, 2020, 116, .	3.3	8
24	Precise Tuning of Skyrmion Density in a Controllable Manner by Ion Irradiation. ACS Applied Materials & Lamp; Interfaces, 2022, 14, 34011-34019.	8.0	8
25	Current-induced collective motion of $180 \hat{A}^\circ$ and $360 \hat{A}^\circ$ domain walls in double nanowires system. Journal of Magnetism and Magnetic Materials, 2013, 347, 124-130.	2.3	6
26	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
27	Current-induced domain wall motion in nanostrip–nanobars system. Japanese Journal of Applied Physics, 2014, 53, 073001.	1.5	5
28	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
29	Current-induced 360° domain wall motion with Dzyaloshinskii–Moriya interaction. Journal Physics D: Applied Physics, 2016, 49, 175005.	2.8	3
30	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
31	Tuning giant magnetoimpedance response of Fe75.5Si13.5B7Nb3Cu1 amorphous ribbon by laser ablation. Journal of Magnetism and Magnetic Materials, 2012, 324, 3189-3192.	2.3	2
32	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
33	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. AIP Advances, 2018, 8, 055813.	1.3	2
34	Phase locking of vortex cores in two coupled magnetic nanopillars. AIP Advances, 2014, 4, .	1.3	1
35	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
36	Magnetotransport Mechanism of Individual Nanostructures <i>via</i> Direct Magnetoresistance Measurement <i>in situ</i> SEM. ACS Applied Materials & Direct Magnetoresistance (1) Naterials (2) Naterials (3) Naterials (3) Naterials (3) Naterials (3) Naterials (4) Nateria	8.0	1

#	Article	IF	CITATIONS
37	Vortex Dynamics in Magnetic Nanodisks With a Ring of Magnetic Defects. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0