

Se Kwon Kim

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,920
citations

212478

28
h-index

198040

52
g-index

80
all docs

80
docs citations

80
times ranked

2846
citing authors

#	ARTICLE	IF	CITATIONS
1	Survey of Temperature Dependence of the Damping Parameter in the Ferrimagnet $Gd_3Fe_5O_{12}$. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	4
2	Berezinskii-Kosterlitz-Thouless transition transport in spin-triplet superconductor. SciPost Physics Core, 2022, 5, .	0.9	4
3	Generation of nonreciprocity in gapless spin waves by chirality injection. Physical Review B, 2022, 105, .	1.1	2
4	Generation of Magnon Orbital Angular Momentum by a Skyrmion-Textured Domain Wall in a Ferromagnetic Nanotube. Frontiers in Physics, 2022, 10, .	1.0	5
5	Ferrimagnetic spintronics. Nature Materials, 2022, 21, 24-34.	13.3	129
6	Violation of the magnonic Wiedemann-Franz law in the strong nonlinear regime. Physical Review B, 2022, 105, .	1.1	2
7	Control of the Half-Skyrmion Hall Effect and Its Application to Adder-Subtractor. Advanced Quantum Technologies, 2021, 4, 2000060.	1.8	10
8	Current-induced spin-wave Doppler shift and attenuation in compensated ferrimagnets. Physical Review B, 2021, 103, .	1.1	9
9	Unconventional magnetoresistance induced by sperimagnetism in GdFeCo. Physical Review B, 2021, 103, .	1.1	17
10	Direct Observation of Fe-Ge Ordering in $Fe_5\tilde{x}GeTe_2$ Crystals and Resultant Helimagnetism. Advanced Functional Materials, 2021, 31, 2009758.	7.8	33
11	Transport signature of the magnetic Berezinskii-Kosterlitz-Thouless transition. SciPost Physics, 2021, 10, .	1.5	12
12	Topological Hall Effects of Magnons in Ferrimagnets. Journal of the Physical Society of Japan, 2021, 90, 081004.	0.7	2
13	Temperature dependence of intrinsic and extrinsic contributions to anisotropic magnetoresistance. Scientific Reports, 2021, 11, 20884.	1.6	10
14	Superluminal-like magnon propagation in antiferromagnetic NiO at nanoscale distances. Nature Nanotechnology, 2021, 16, 1337-1341.	15.6	24
15	Orbital angular momentum and current-induced motion of a topologically textured domain wall in a ferromagnetic nanotube. Physical Review B, 2021, 104, .	1.1	3
16	Interface Engineering of Magnetic Anisotropy in van der Waals Ferromagnet-based Heterostructures. ACS Nano, 2021, 15, 16395-16403.	7.3	7
17	Domain-wall motion driven by a rotating field in a ferrimagnet. Physical Review B, 2021, 104, .	1.1	5
18	Tunable magnonic cavity analogous to Fabry-Pérot interferometer. Applied Physics Letters, 2021, 119, 202401.	1.5	2

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19	The dynamics of a domain wall in ferrimagnets driven by spin-transfer torque. Journal of Magnetism and Magnetic Materials, 2020, 514, 167237.	1.0	13
20	Magnetic soliton rectifier via phase synchronization. Physical Review B, 2020, 102, .	1.1	2
21	Driving a magnetized domain wall in an antiferromagnet by magnons. Journal of Applied Physics, 2020, 127, .	1.1	13
22	Magnetic field control of topological magnon-polaron bands in two-dimensional ferromagnets. Physical Review B, 2020, 101, .	1.1	13
23	Direct Demonstration of Topological Stability of Magnetic Skyrmions <i>via</i> Topology Manipulation. ACS Nano, 2020, 14, 3251-3258.	7.3	57
24	Distinct handedness of spin wave across the compensation temperatures of ferrimagnets. Nature Materials, 2020, 19, 980-985.	13.3	42
25	Enhanced Magnon-Photon Coupling at the Angular Momentum Compensation Point of Ferrimagnets. Physical Review Letters, 2020, 125, 027205.	2.9	15
26	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. Nature Communications, 2020, 11, 949.	5.8	67
27	Tuning entanglement by squeezing magnons in anisotropic magnets. Physical Review B, 2020, 101, .	1.1	32
28	Fast and efficient switching with ferrimagnets. Nature Electronics, 2020, 3, 18-19.	13.1	7
29	SU(3) Topology of Magnon-Phonon Hybridization in 2D Antiferromagnets. Physical Review Letters, 2020, 124, 147204.	2.9	46
30	Realization of Su-Schrieffer-Heeger states based on metamaterials of magnetic solitons. Physical Review B, 2020, 101, .	1.1	11
31	Quantum hydrodynamics of spin winding. Physical Review B, 2020, 102, .	1.1	7
32	Relativistic kinematics of a magnetic soliton. Science, 2020, 370, 1438-1442.	6.0	75
33	Laser control of magnonic topological phases in antiferromagnets. Physical Review B, 2019, 100, .	1.1	10
34	Temperature dependence of magnetic resonance in ferrimagnetic GdFeCo alloys. Applied Physics Express, 2019, 12, 093001.	1.1	24
35	Bidirectional spin-wave-driven domain wall motion in ferrimagnets. Physical Review B, 2019, 100, .	1.1	25
36	Electrical manipulation of spin pumping signal through nonlocal thermal magnon transport. Applied Physics Letters, 2019, 115, .	1.5	1

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37	Stabilization of the skyrmion crystal phase and transport in thin-film antiferromagnets. <i>Physical Review B</i> , 2019, 100, .	1.1	9
38	Spin-transfer torques for domain wall motion in antiferromagnetically coupled ferrimagnets. <i>Nature Electronics</i> , 2019, 2, 389-393.	13.1	55
39	Vanishing skyrmion Hall effect at the angular momentum compensation temperature of a ferrimagnet. <i>Nature Nanotechnology</i> , 2019, 14, 232-236.	15.6	137
40	Domain wall dynamics in easy-cone magnets. <i>Physical Review B</i> , 2019, 99, .	1.1	8
41	Dynamics of bimeron skyrmions in easy-plane magnets induced by a spin supercurrent. <i>Physical Review B</i> , 2019, 99, .	1.1	29
42	Topological Hall effect at above room temperature in heterostructures composed of a magnetic insulator and a heavy metal. <i>Nature Electronics</i> , 2019, 2, 182-186.	13.1	117
43	Topological transport of vorticity in Heisenberg magnets. <i>Physical Review B</i> , 2019, 99, .	1.1	14
44	Low Magnetic Damping of Ferrimagnetic GdFeCo Alloys. <i>Physical Review Letters</i> , 2019, 122, 127203.	2.9	60
45	Tunable Magnonic Thermal Hall Effect in Skyrmion Crystal Phases of Ferrimagnets. <i>Physical Review Letters</i> , 2019, 122, 057204.	2.9	56
46	Topological Magnon-Phonon Hybrid Excitations in Two-Dimensional Ferromagnets with Tunable Chern Numbers. <i>Physical Review Letters</i> , 2019, 123, 237207.	2.9	56
47	Magnetoelectric antiferromagnets as platforms for the manipulation of solitons. <i>Physical Review B</i> , 2018, 97, .	1.1	11
48	Cooper-Pair Spin Current in a Strontium Ruthenate Heterostructure. <i>Physical Review Letters</i> , 2018, 121, 167001.	2.9	12
49	Nonlocal Spin Transport Mediated by a Vortex Liquid in Superconductors. <i>Physical Review Letters</i> , 2018, 121, 187203.	2.9	16
50	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , 2018, 9, 3612.	5.8	84
51	Magnon-induced non-Markovian friction of a domain wall in a ferromagnet. <i>Physical Review B</i> , 2018, 97, .	1.1	9
52	Spin-Torque-Biased Magnetic Strip: Nonequilibrium Phase Diagram and Relation to Long Josephson Junctions. <i>Physical Review Letters</i> , 2018, 121, 037202.	2.9	17
53	Magnetic Domain Wall Floating on a Spin Superfluid. <i>Physical Review Letters</i> , 2017, 118, 097201.	2.9	8
54	Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics. <i>Physical Review B</i> , 2017, 96, .	1.1	50

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55	Fast domain wall motion in the vicinity of the angular momentum compensation temperature of \hat{A} ferrimagnets. Nature Materials, 2017, 16, 1187-1192.	13.3	321
56	Spin analogs of superconductivity and integer quantum Hall effect in an array of spin chains. Physical Review B, 2017, 95, .	1.1	2
57	Self-focusing skyrmion racetracks in ferrimagnets. Physical Review B, 2017, 95, .	1.1	79
58	Magnetic Domain Walls as Hosts of Spin Superfluids and Generators of Skyrmions. Physical Review Letters, 2017, 119, 047202.	2.9	23
59	Fast vortex oscillations in a ferrimagnetic disk near the angular momentum compensation point. Applied Physics Letters, 2017, 111, .	1.5	15
60	Gyrotropic elastic response of skyrmion crystals to current-induced tensions. Physical Review B, 2017, 96, .	1.1	7
61	Chiral Edge Mode in the Coupled Dynamics of Magnetic Solitons in a Honeycomb Lattice. Physical Review Letters, 2017, 119, 077204.	2.9	29
62	Magnonic topological insulators in antiferromagnets. Physical Review B, 2017, 96, .	1.1	101
63	Gauge fields and related forces in antiferromagnetic soliton physics. Physical Review B, 2017, 95, .	1.1	18
64	Mechanical Actuation of Magnetic Domain-Wall Motion. Physical Review Letters, 2016, 117, 237201.	2.9	10
65	Interaction between a domain wall and spin supercurrent in easy-cone magnets. Physical Review B, 2016, 94, .	1.1	8
66	Realization of the Haldane-Kane-Mele Model in a System of Localized Spins. Physical Review Letters, 2016, 117, 227201.	2.9	162
67	Topological spin-transfer drag driven by skyrmion diffusion. Physical Review B, 2016, 94, .	1.1	16
68	Thermally activated phase slips in superfluid spin transport in magnetic wires. Physical Review B, 2016, 93, .	1.1	30
69	Topological Effects on Quantum Phase Slips in Superfluid Spin Transport. Physical Review Letters, 2016, 116, 127201.	2.9	18
70	Room-Temperature Creation and Spin-Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. Nano Letters, 2016, 16, 1981-1988.	4.5	275
71	Control and braiding of Majorana fermions bound to magnetic domain walls. Physical Review B, 2015, 92, .	1.1	18
72	U(1) symmetry of the spin-orbit coupled Hubbard model on the kagome lattice. Physical Review B, 2015, 92, .	1.1	9

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73	Topological spin transport by Brownian diffusion of domain walls. <i>Physical Review B</i> , 2015, 92, .	1.1	22
74	Landau-Lifshitz theory of thermomagnonic torque. <i>Physical Review B</i> , 2015, 92, .	1.1	35
75	Thermophoresis of an antiferromagnetic soliton. <i>Physical Review B</i> , 2015, 92, .	1.1	40
76	Propulsion of a domain wall in an antiferromagnet by magnons. <i>Physical Review B</i> , 2014, 90, .	1.1	115
77	Low-energy electrodynamics of novel spin excitations in the quantum spin ice Yb ₂ Ti ₂ O ₇ . <i>Nature Communications</i> , 2014, 5, 4970.	5.8	44
78	Pinning of a Bloch point by an atomic lattice. <i>Physical Review B</i> , 2013, 88, .	1.1	31