Se Kwon Kim

List of Publications by Year
in descending order

78 papers	2,920 citations	186265 28 h-index	175258 52 g-index
80 all docs	80 docs citations	80 times ranked	2564 citing authors

#	Article	IF	Citations
1	Survey of Temperature Dependence of the Damping Parameter in the Ferrimagnet Gd₃Fe₅O₁₂. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	4
2	Berezinskii-Kosterlitz-Thouless transition transport in spin-triplet superconductor. SciPost Physics Core, 2022, 5, .	2.8	4
3	Generation of nonreciprocity in gapless spin waves by chirality injection. Physical Review B, 2022, 105, .	3.2	2
4	Generation of Magnon Orbital Angular Momentum by a Skyrmion-Textured Domain Wall in a Ferromagnetic Nanotube. Frontiers in Physics, 2022, 10, .	2.1	5
5	Ferrimagnetic spintronics. Nature Materials, 2022, 21, 24-34.	27.5	129
6	Violation of the magnonic Wiedemann-Franz law in the strong nonlinear regime. Physical Review B, 2022, 105, .	3.2	2
7	Control of the Halfâ€Skyrmion Hall Effect and Its Application to Adderâ€“Subtractor. Advanced Quantum Technologies, 2021, 4, 2000060.	3.9	10
8	Current-induced spin-wave Doppler shift and attenuation in compensated ferrimagnets. Physical Review B, 2021, 103, .	3.2	9
9	Unconventional magnetoresistance induced by sperimagnetism in GdFeCo. Physical Review B, 2021, 103, .	3.2	17
10	Direct Observation of Feâ€Ge Ordering in Fe_{5â^'}_xGeTe₂ Crystals and Resultant Helimagnetism. Advanced Functional Materials, 2021, 31, 2009758.	14.9	33
11	Transport signature of the magnetic Berezinskii-Kosterlitz-Thouless transition. SciPost Physics, 2021, 10, .	4.9	12
12	Topological Hall Effects of Magnons in Ferrimagnets. Journal of the Physical Society of Japan, 2021, 90, 081004.	1.6	2
13	Temperature dependence of intrinsic and extrinsic contributions to anisotropic magnetoresistance. Scientific Reports, 2021, 11, 20884.	3.3	10
14	Superluminal-like magnon propagation in antiferromagnetic NiO at nanoscale distances. Nature Nanotechnology, 2021, 16, 1337-1341.	31.5	24
15	Orbital angular momentum and current-induced motion of a topologically textured domain wall in a ferromagnetic nanotube. Physical Review B, 2021, 104, .	3.2	3
16	Interface Engineering of Magnetic Anisotropy in van der Waals Ferromagnet-based Heterostructures. ACS Nano, 2021, 15, 16395-16403.	14.6	7
17	Domain-wall motion driven by a rotating field in a ferrimagnet. Physical Review B, 2021, 104, .	3.2	5
18	Tunable magnonic cavity analogous to Fabryâ€“PÃ©rot interferometer. Applied Physics Letters, 2021, 119, 202401.	3.3	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.	2.3	13
20	Magnetic soliton rectifier via phase synchronization. Physical Review B, 2020, 102, .	3.2	2
21	Driving a magnetized domain wall in an antiferromagnet by magnons. Journal of Applied Physics, 2020, 127, .	2.5	13
22	Magnetic field control of topological magnon-polaron bands in two-dimensional ferromagnets. Physical Review B, 2020, 101, .	3.2	13
23	Direct Demonstration of Topological Stability of Magnetic Skyrmions via Topology Manipulation. ACS Nano, 2020, 14, 3251-3258.	14.6	57
24	Distinct handedness of spin wave across the compensation temperatures of ferrimagnets. Nature Materials, 2020, 19, 980-985.	27.5	42
25	Enhanced Magnon-Photon Coupling at the Angular Momentum Compensation Point of Ferrimagnets. Physical Review Letters, 2020, 125, 027205.	7.8	15
26	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. Nature Communications, 2020, 11, 949.	12.8	67
27	Tuning entanglement by squeezing magnons in anisotropic magnets. Physical Review B, 2020, 101, .	3.2	32
28	Fast and efficient switching with ferrimagnets. Nature Electronics, 2020, 3, 18-19.	26.0	7
29	SU(3) Topology of Magnon-Phonon Hybridization in 2D Antiferromagnets. Physical Review Letters, 2020, 124, 147204.	7.8	46
30	Realization of Su-Schrieffer-Heeger states based on metamaterials of magnetic solitons. Physical Review B, 2020, 101, .	3.2	11
31	Quantum hydrodynamics of spin winding. Physical Review B, 2020, 102, .	3.2	7
32	Relativistic kinematics of a magnetic soliton. Science, 2020, 370, 1438-1442.	12.6	75
33	Laser control of magnonic topological phases in antiferromagnets. Physical Review B, 2019, 100, .	3.2	10
34	Temperature dependence of magnetic resonance in ferrimagnetic GdFeCo alloys. Applied Physics Express, 2019, 12, 093001.	2.4	24
35	Bidirectional spin-wave-driven domain wall motion in ferrimagnets. Physical Review B, 2019, 100, .	3.2	25
36	Electrical manipulation of spin pumping signal through nonlocal thermal magnon transport. Applied Physics Letters, 2019, 115, .	3.3	1

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37	Stabilization of the skyrmion crystal phase and transport in thin-film antiferromagnets. Physical Review B, 2019, 100, .	3.2	9
38	Spin-transfer torques for domain wall motion in antiferromagnetically coupled ferrimagnets. Nature Electronics, 2019, 2, 389-393.	26.0	55
39	Vanishing skyrmion Hall effect at the angular momentum compensation temperature of a ferrimagnet. Nature Nanotechnology, 2019, 14, 232-236.	31.5	137
40	Domain wall dynamics in easy-cone magnets. Physical Review B, 2019, 99, .	3.2	8
41	Dynamics of bimeron skyrmions in easy-plane magnets induced by a spin supercurrent. Physical Review B, 2019, 99, .	3.2	29
42	Topological Hall effect at above room temperature in heterostructures composed of a magnetic insulator and a heavy metal. Nature Electronics, 2019, 2, 182-186.	26.0	117
43	Topological transport of vorticity in Heisenberg magnets. Physical Review B, 2019, 99, .	3.2	14
44	Low Magnetic Damping of Ferrimagnetic GdFeCo Alloys. Physical Review Letters, 2019, 122, 127203.	7.8	60
45	Tunable Magnonic Thermal Hall Effect in Skyrmion Crystal Phases of Ferrimagnets. Physical Review Letters, 2019, 122, 057204.	7.8	56
46	Topological Magnon-Phonon Hybrid Excitations in Two-Dimensional Ferromagnets with Tunable Chern Numbers. Physical Review Letters, 2019, 123, 237207.	7.8	56
47	Magnetoelectric antiferromagnets as platforms for the manipulation of solitons. Physical Review B, 2018, 97, .	3.2	11
48	Cooper-Pair Spin Current in a Strontium Ruthenate Heterostructure. Physical Review Letters, 2018, 121, 167001.	7.8	12
49	Nonlocal Spin Transport Mediated by a Vortex Liquid in Superconductors. Physical Review Letters, 2018, 121, 187203.	7.8	16
50	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. Nature Communications, 2018, 9, 3612.	12.8	84
51	Magnon-induced non-Markovian friction of a domain wall in a ferromagnet. Physical Review B, 2018, 97, .	3.2	9
52	Spin-Torque-Biased Magnetic Strip: Nonequilibrium Phase Diagram and Relation to Long Josephson Junctions. Physical Review Letters, 2018, 121, 037202.	7.8	17
53	Magnetic Domain Wall Floating on a Spin Superfluid. Physical Review Letters, 2017, 118, 097201.	7.8	8
54	Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics. Physical Review B, 2017, 96, .	3.2	50

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55	Fast domain wall motion in the vicinity of the angular momentum compensation temperature ofÂferrimagnets. Nature Materials, 2017, 16, 1187-1192.	27.5	321
56	Spin analogs of superconductivity and integer quantum Hall effect in an array of spin chains. Physical Review B, 2017, 95, .	3.2	2
57	Self-focusing skyrmion racetracks in ferrimagnets. Physical Review B, 2017, 95, .	3.2	79
58	Magnetic Domain Walls as Hosts of Spin Superfluids and Generators of Skyrmions. Physical Review Letters, 2017, 119, 047202.	7.8	23
59	Fast vortex oscillations in a ferrimagnetic disk near the angular momentum compensation point. Applied Physics Letters, 2017, 111, .	3.3	15
60	Gyrotropic elastic response of skyrmion crystals to current-induced tensions. Physical Review B, 2017, 96, .	3.2	7
61	Chiral Edge Mode in the Coupled Dynamics of Magnetic Solitons in a Honeycomb Lattice. Physical Review Letters, 2017, 119, 077204.	7.8	29
62	Magnonic topological insulators in antiferromagnets. Physical Review B, 2017, 96, .	3.2	101
63	Gauge fields and related forces in antiferromagnetic soliton physics. Physical Review B, 2017, 95, .	3.2	18
64	Mechanical Actuation of Magnetic Domain-Wall Motion. Physical Review Letters, 2016, 117, 237201.	7.8	10
65	Interaction between a domain wall and spin supercurrent in easy-cone magnets. Physical Review B, 2016, 94, .	3.2	8
66	Realization of the Haldane-Kane-Mele Model in a System of Localized Spins. Physical Review Letters, 2016, 117, 227201.	7.8	162
67	Topological spin-transfer drag driven by skyrmion diffusion. Physical Review B, 2016, 94, .	3.2	16
68	Thermally activated phase slips in superfluid spin transport in magnetic wires. Physical Review B, 2016, 93, .	3.2	30
69	Topological Effects on Quantum Phase Slips in Superfluid Spin Transport. Physical Review Letters, 2016, 116, 127201.	7.8	18
70	Room-Temperature Creation and Spinâ€"Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. Nano Letters, 2016, 16, 1981-1988.	9.1	275
71	Control and braiding of Majorana fermions bound to magnetic domain walls. Physical Review B, 2015, 92, .	3.2	18
72	U(1) symmetry of the spin-orbit coupled Hubbard model on the kagome lattice. Physical Review B, 2015, 92, .	3.2	9

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73	Topological spin transport by Brownian diffusion of domain walls. Physical Review B, 2015, 92, .	3.2	22
74	Landau-Lifshitz theory of thermomagnonic torque. Physical Review B, 2015, 92, .	3.2	35
75	Thermophoresis of an antiferromagnetic soliton. Physical Review B, 2015, 92, .	3.2	40
76	Propulsion of a domain wall in an antiferromagnet by magnons. Physical Review B, 2014, 90, .	3.2	115
77	Low-energy electrodynamics of novel spin excitations in the quantum spin ice Yb2Ti2O7. Nature Communications, 2014, 5, 4970.	12.8	44
78	Pinning of a Bloch point by an atomic lattice. Physical Review B, 2013, 88, .	3.2	31