Levente RÃ3zsa

List of Publications by Year in descending order

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471509 395702 1,151 33 17 33 citations h-index g-index papers 34 34 34 1387 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Precursors of Majorana modes and their length-dependent energy oscillations probed at both ends of atomic Shiba chains. Nature Nanotechnology, 2022, 17, 384-389.	31.5	44
2	Coexistence of antiferromagnetism and superconductivity in Mn/Nb(110). Physical Review B, 2022, 105, .	3.2	12
3	High-resolution tunneling spin transport characteristics of topologically distinct magnetic skyrmionic textures from theoretical calculations. Journal of Magnetism and Magnetic Materials, 2021, 519, 167440.	2.3	1
4	Nutation in antiferromagnetic resonance. Physical Review B, 2021, 103, .	3.2	22
5	Spin-orbit coupling induced splitting of Yu-Shiba-Rusinov states in antiferromagnetic dimers. Nature Communications, 2021, 12, 2040.	12.8	48
6	Skyrmions as quasiparticles: Free energy and entropy. Physical Review B, 2021, 103, .	3.2	4
7	Skyrmion Dynamics at Finite Temperatures: Beyond Thiele's Equation. Physical Review Letters, 2021, 127, 047203.	7.8	26
8	Electronic and Magnetic Properties of Building Blocks of Mn and Fe Atomic Chains on Nb(110). Nanomaterials, 2021, 11, 1933.	4.1	7
9	Anisotropic non-split zero-energy vortex bound states in a conventional superconductor. Applied Physics Reviews, 2021, 8, .	11.3	12
10	Spin reorientation transition in an ultrathin Fe film on W(110) induced by Dzyaloshinsky-Moriya interactions. Physical Review B, 2020, 102, .	3.2	5
11	Temperature scaling of two-ion anisotropy in pure and mixed anisotropy systems. Physical Review B, 2020, 102, .	3.2	24
12	Long-range focusing of magnetic bound states in superconducting lanthanum. Nature Communications, 2020, 11, 4573.	12.8	19
13	Spin waves in skyrmionic structures with various topological charges. Journal of Physics Condensed Matter, 2020, 33, 054001.	1.8	6
14	Reduced thermal stability of antiferromagnetic nanostructures. Physical Review B, 2019, 100, .	3.2	11
15	Magnetism and in-gap states of 3d transition metal atoms on superconducting Re. Npj Quantum Materials, 2019, 4, .	5.2	29
16	Stochastic dynamics and pattern formation of geometrically confined skyrmions. Communications Physics, 2019, 2, .	5.3	24
17	Thermal skyrmion diffusion used in a reshuffler device. Nature Nanotechnology, 2019, 14, 658-661.	31.5	221
18	Inducing skyrmions in ultrathin Fe films by hydrogen exposure. Nature Communications, 2018, 9, 1571.	12.8	40

#	Article	IF	CITATIONS
19	Theory of high-resolution tunneling spin transport on a magnetic skyrmion. Physical Review B, 2018, 97, .	3.2	2
20	Localized spin waves in isolated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>k</mml:mi><mml:mi>ï€<td>><<i> s</i>m2ml:m</td><td>rowy </td></mml:mi></mml:mrow></mml:math>	>< <i> s</i> m2ml:m	rowy
21	Effective damping enhancement in noncollinear spin structures. Physical Review B, 2018, 98, .	3.2	10
22	Controlled creation and stability of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>k</mml:mi><mml:mi>Ï€<td>> < 302ml:m</td><td>rows4</td></mml:mi></mml:mrow></mml:math>	> < 3 02ml:m	rows4
23	Toward tailoring Majorana bound states in artificially constructed magnetic atom chains on elemental superconductors. Science Advances, 2018, 4, eaar5251.	10.3	233
24	Formation and stability of metastable skyrmionic spin structures with various topologies in an ultrathin film. Physical Review B, $2017, 95$, .	3.2	61
25	Temperature scaling of the Dzyaloshinsky-Moriya interaction in the spin wave spectrum. Physical Review B, 2017, 96, .	3.2	33
26	Temperature-Induced Increase of Spin Spiral Periods. Physical Review Letters, 2017, 119, 037202.	7.8	9
27	Spin-polarized scanning tunneling microscopy characteristics of skyrmionic spin structures exhibiting various topologies. Physical Review B, 2017, 96, .	3.2	9
28	Skyrmions with Attractive Interactions in an Ultrathin Magnetic Film. Physical Review Letters, 2016, 117, 157205.	7.8	80
29	Complex magnetic phase diagram and skyrmion lifetime in an ultrathin film from atomistic simulations. Physical Review B, 2016, 93, .	3.2	65
30	Magnetic phase diagram of an Fe monolayer on W(110) and Ta(110) surfaces based on <i> ab initio < /i > calculations. Physical Review B, 2015, 91, .</i>	3.2	21
31	Non-Collinear Magnetic Configurations at Finite Temperature in Thin Films. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
32	Langevin spin dynamics based on <i>ab initio</i> calculations: numerical schemes and applications. Journal of Physics Condensed Matter, 2014, 26, 216003.	1.8	12
33	Relativistic and thermal effects on the magnon spectrum of a ferromagnetic monolayer. Journal of Physics Condensed Matter, 2013, 25, 506002.	1.8	9