

Eszter Simon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

633
citations

15
h-index

24
g-index

38
ext. papers

764
ext. citations

3.6
avg, IF

3.78
L-index

#	Paper	IF	Citations
35	High-resolution tunneling spin transport characteristics of topologically distinct magnetic skyrmionic textures from theoretical calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 519, 167440	2.8	1
34	Theoretical study on the electric field effect on magnetism of Pd/Co/Pt thin films. <i>Physical Review B</i> , 2021 , 103,	3.3	1
33	Noncollinear antiferromagnetic states in Ru-based Heusler compounds induced by biquadratic coupling. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
32	Long-range focusing of magnetic bound states in superconducting lanthanum. <i>Nature Communications</i> , 2020 , 11, 4573	17.4	5
31	Spin-spiral formalism based on the multiple-scattering Green's function technique with applications to ultrathin magnetic films and multilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	1
30	Magnetic and magnetocaloric properties of the Co ₂ -xMn B system by experiment and density functional theory. <i>Acta Materialia</i> , 2019 , 165, 270-277	8.4	7
29	Magnetism of a Co monolayer on Pt(111) capped by overlayers of 5d elements: A spin-model study. <i>Physical Review B</i> , 2018 , 97,	3.3	13
28	Magnetism and exchange-bias effect at the MnN/Fe interface. <i>Physical Review B</i> , 2018 , 98,	3.3	3
27	Formation and stability of metastable skyrmionic spin structures with various topologies in an ultrathin film. <i>Physical Review B</i> , 2017 , 95,	3.3	49
26	Development of antiferromagnetic Heusler alloys for the replacement of iridium as a critically raw material. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 443001	3	29
25	Interfacial exchange interactions and magnetism of Ni ₂ MnAl/Fe bilayers. <i>Physical Review B</i> , 2017 , 96,	3.3	2
24	Spin-polarized scanning tunneling microscopy characteristics of skyrmionic spin structures exhibiting various topologies. <i>Physical Review B</i> , 2017 , 96,	3.3	8
23	Microscopic origin of ferro-antiferromagnetic transition upon non-magnetic substitution in Ru ₂ (Mn _{1-x} V _x)Ge full Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 178-182	5.7	5
22	Complex magnetic phase diagram and skyrmion lifetime in an ultrathin film from atomistic simulations. <i>Physical Review B</i> , 2016 , 93,	3.3	44
21	Broad-band dielectric response of 0.5Ba(Ti _{0.8} Zr _{0.2})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ piezoceramics: soft and central mode behaviour. <i>Phase Transitions</i> , 2016 , 89, 785-793	1.3	8
20	Domain-wall profiles in Co/Ir _n /Pt(111) ultrathin films: Influence of the Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2016 , 94,	3.3	19
19	Skyrmions with Attractive Interactions in an Ultrathin Magnetic Film. <i>Physical Review Letters</i> , 2016 , 117, 157205	7.4	56

18	Antiferromagnetism in Ru ₂ MnZ (Z=Sn,Sb,Ge,Si) full Heusler alloys: Effects of magnetic frustration and chemical disorder. <i>Physical Review B</i> , 2015 , 91,	3-3	24
17	Magnetism of ordered and disordered Ni ₂ MnAl full Heusler compounds. <i>Physical Review B</i> , 2015 , 92,	3-3	16
16	Tensile strain-induced softening of iron at high temperature. <i>Scientific Reports</i> , 2015 , 5, 16654	4-9	7
15	Magnetism of Gadolinium: A First-Principles Perspective. <i>Physical Review Letters</i> , 2015 , 115, 096402	7-4	23
14	Exchange interaction between magnetic impurities on surfaces of Cu(x)Pd(1-x) and Cu(x)Au(1-x) random substitutional alloys. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 274211	1-8	
13	Formation of magnetic skyrmions with tunable properties in PdFe bilayer deposited on Ir(111). <i>Physical Review B</i> , 2014 , 90,	3-3	56
12	Metallic magnetism at finite temperatures studied by relativistic disordered moment description: Theory and applications. <i>Physical Review B</i> , 2014 , 89,	3-3	33
11	Spin-correlations and magnetic structure in an Fe monolayer on 5d transition metal surfaces. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 186001	1-8	14
10	Higher-order contributions to the Rashba-Bychkov effect with application to the Bi/Ag(111) surface alloy. <i>Physical Review B</i> , 2012 , 85,	3-3	73
9	Exchange interaction between magnetic adatoms on surfaces of noble metals. <i>Physical Review B</i> , 2011 , 83,	3-3	20
8	Ferroelectric domains in epitaxial PbTiO ₃ films on LaAlO ₃ substrate investigated by piezoresponse force microscopy and far-infrared reflectance. <i>Journal of Applied Physics</i> , 2011 , 110, 084115	2-5	12
7	Raman Spectroscopy Study of Na _{1/2} Bi _{1/2} TiO ₃ BaTiO ₃ Lead-Free Single Crystal Relaxor Piezoelectrics. <i>Ferroelectrics</i> , 2010 , 404, 220-225	0-6	6
6	Anisotropic Rashba splitting of surface states from the admixture of bulk states: Relativistic ab initio calculations and k?p perturbation theory. <i>Physical Review B</i> , 2010 , 81,	3-3	24
5	Terahertz and far-infrared response of Ba x Sr1-x TiO ₃ films. <i>Phase Transitions</i> , 2010 , 83, 966-973	1-3	3
4	Anisotropy of exchange interactions between impurities on Cu(110) surface. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 032067	0-3	3
3	Giant magnetoresistance in electrodeposited Co-Cu/Cu multilayers: Origin of the absence of oscillatory behavior. <i>Physical Review B</i> , 2009 , 79,	3-3	39
2	Ab-initio investigation of RKKY interactions on metallic surfaces. <i>Philosophical Magazine</i> , 2008 , 88, 2667-2672		4
1	Structure and giant magnetoresistance behaviour of Co-Cu/Cu multilayers electrodeposited under various deposition conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2000-12	1-3	21

