

# Eszter Simon

## List of Publications by Citations

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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	Higher-order contributions to the Rashba-Bychkov effect with application to the Bi/Ag(111) surface alloy. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	73
34	Formation of magnetic skyrmions with tunable properties in PdFe bilayer deposited on Ir(111). <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	56
33	Skyrmions with Attractive Interactions in an Ultrathin Magnetic Film. <i>Physical Review Letters</i> , <b>2016</b> , 117, 157205	7.4	56
32	Formation and stability of metastable skyrmionic spin structures with various topologies in an ultrathin film. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	49
31	Complex magnetic phase diagram and skyrmion lifetime in an ultrathin film from atomistic simulations. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	44
30	Giant magnetoresistance in electrodeposited Co-Cu/Cu multilayers: Origin of the absence of oscillatory behavior. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	39
29	Metallic magnetism at finite temperatures studied by relativistic disordered moment description: Theory and applications. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	33
28	Development of antiferromagnetic Heusler alloys for the replacement of iridium as a critically raw material. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 443001	3	29
27	Antiferromagnetism in Ru <sub>2</sub> MnZ (Z=Sn,Sb,Ge,Si) full Heusler alloys: Effects of magnetic frustration and chemical disorder. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	24
26	Anisotropic Rashba splitting of surface states from the admixture of bulk states: Relativistic ab initio calculations and k <sup>2</sup> p perturbation theory. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	24
25	Magnetism of Gadolinium: A First-Principles Perspective. <i>Physical Review Letters</i> , <b>2015</b> , 115, 096402	7.4	23
24	Structure and giant magnetoresistance behaviour of Co-Cu/Cu multilayers electrodeposited under various deposition conditions. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2000-12	1.3	21
23	Exchange interaction between magnetic adatoms on surfaces of noble metals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	20
22	Domain-wall profiles in Co/Ir <sub>n</sub> /Pt(111) ultrathin films: Influence of the Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	19
21	Magnetism of ordered and disordered Ni <sub>2</sub> MnAl full Heusler compounds. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	16
20	Spin-correlations and magnetic structure in an Fe monolayer on 5d transition metal surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 186001	1.8	14
19	Magnetism of a Co monolayer on Pt(111) capped by overlayers of 5d elements: A spin-model study. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13

18	Ferroelectric domains in epitaxial PbTiO <sub>3</sub> films on LaAlO <sub>3</sub> substrate investigated by piezoresponse force microscopy and far-infrared reflectance. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 084115	2.5	12
17	Broad-band dielectric response of 0.5Ba(Ti <sub>0.8</sub> Zr <sub>0.2</sub> )O <sub>3</sub> ·0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> piezoceramics: soft and central mode behaviour. <i>Phase Transitions</i> , <b>2016</b> , 89, 785-793	1.3	8
16	Spin-polarized scanning tunneling microscopy characteristics of skyrmionic spin structures exhibiting various topologies. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	8
15	Tensile strain-induced softening of iron at high temperature. <i>Scientific Reports</i> , <b>2015</b> , 5, 16654	4.9	7
14	Magnetic and magnetocaloric properties of the Co <sub>2-x</sub> Mn <sub>x</sub> B system by experiment and density functional theory. <i>Acta Materialia</i> , <b>2019</b> , 165, 270-277	8.4	7
13	Raman Spectroscopy Study of Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> BaTiO <sub>3</sub> Lead-Free Single Crystal Relaxor Piezoelectrics. <i>Ferroelectrics</i> , <b>2010</b> , 404, 220-225	0.6	6
12	Microscopic origin of ferro-antiferromagnetic transition upon non-magnetic substitution in Ru <sub>2</sub> (Mn <sub>1-x</sub> V <sub>x</sub> )Ge full Heusler alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 692, 178-182	5.7	5
11	Long-range focusing of magnetic bound states in superconducting lanthanum. <i>Nature Communications</i> , <b>2020</b> , 11, 4573	17.4	5
10	Ab-initio investigation of RKKY interactions on metallic surfaces. <i>Philosophical Magazine</i> , <b>2008</b> , 88, 2667-2672	4	4
9	Noncollinear antiferromagnetic states in Ru-based Heusler compounds induced by biquadratic coupling. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	4
8	Terahertz and far-infrared response of Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> films. <i>Phase Transitions</i> , <b>2010</b> , 83, 966-973	1.3	3
7	Anisotropy of exchange interactions between impurities on Cu(110) surface. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 032067	0.3	3
6	Magnetism and exchange-bias effect at the MnN/Fe interface. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	3
5	Interfacial exchange interactions and magnetism of Ni <sub>2</sub> MnAl/Fe bilayers. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	2
4	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> , <b>2019</b> , 100,	3.3	1
3	High-resolution tunneling spin transport characteristics of topologically distinct magnetic skyrmionic textures from theoretical calculations. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 519, 167440	2.8	1
2	Theoretical study on the electric field effect on magnetism of Pd/Co/Pt thin films. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
1	Exchange interaction between magnetic impurities on surfaces of Cu <sub>x</sub> Pd <sub>(1-x)</sub> and Cu <sub>x</sub> Au <sub>(1-x)</sub> random substitutional alloys. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 274211	1.8	

