

Pavel Baláž^{3/4}

List of Publications by Year in descending order

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37
all docs

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docs citations

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times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable short-wavelength spin wave excitation from pinned magnetic domain walls. Scientific Reports, 2016, 6, 21330.	3.3	63
2	Current-induced dynamics in noncollinear dual spin valves. Physical Review B, 2009, 80, .	3.2	19
3	Magnetic and structural properties of Mn-doped Bi ₂ Se ₃ topological insulators. Physica B: Condensed Matter, 2016, 481, 262-267.	2.7	18
4	Transport theory for femtosecond laser-induced spin-transfer torques. Journal of Physics Condensed Matter, 2018, 30, 115801.	1.8	17
5	Electronic and transport properties of the Mn-doped topological insulator $\text{Bi}_{1-x}\text{Mn}_x\text{Sb}$. A first-principles study. Physical Review B, 2016, 93, .	2.2	16
6	Physical properties of the tetragonal CuMnAs: A first-principles study. Physical Review B, 2017, 96, .	3.2	16
7	Current-induced instability of a composite free layer with antiferromagnetic interlayer coupling. Physical Review B, 2013, 88, .	3.2	13
8	High-frequency magnon excitation due to femtosecond spin-transfer torques. Physical Review B, 2020, 101, .	3.2	13
9	Current-pulse-induced magnetic switching in standard and nonstandard spin-valves: Theory and numerical analysis. Physical Review B, 2009, 79, .	3.2	12
10	Domain wall dynamics due to femtosecond laser-induced superdiffusive spin transport. Physical Review B, 2020, 101, .	3.2	12
11	Laser-Induced Ultrafast Magnetic Phenomena. Handbook of Magnetic Materials, 2017, 26, 291-463.	0.6	11
12	Spin-transfer torque in a thick NiO domain wall. Physical Review B, 2012, 85, .	3.2	9
13	Magnetic properties of Mn-doped $\text{Bi}_{1-x}\text{Mn}_x\text{Sb}$ topological insulators: <i>Ab initio</i> calculations. Physical Review B, 2020, 101, .	2.2	9
14	Current-induced dynamics of composite free layer with antiferromagnetic interlayer exchange coupling. Physical Review B, 2011, 83, .	3.2	8
15	Tetragonal CuMnAs alloy: Role of defects. Journal of Magnetism and Magnetic Materials, 2019, 474, 467-471.	2.3	7
16	Melting of NiO skyrmion lattice. Physical Review B, 2021, 103, .	3.2	7
17	Transverse spin penetration length in metallic spin valves. Journal of Applied Physics, 2013, 113, 193905.	2.5	6
18	Spin waves in exchange-coupled double layers in the presence of spin torques. Physical Review B, 2015, 91, .	3.2	6

#	ARTICLE	IF	CITATIONS
19	Breakdown of an intermediate plateau in the magnetization process of anisotropic spin-1 Heisenberg dimer: Theory vs. experiment. <i>Physica B: Condensed Matter</i> , 2008, 403, 3146-3153.	2.7	5
20	Spin-transfer torque and current-induced switching in metallic spin valves with perpendicular polarizers. <i>Physical Review B</i> , 2013, 88, .	3.2	4
21	Tailoring femtosecond hot-electron pulses for ultrafast spin manipulation. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	4
22	The evidence of the localized point defect from the remagnetization of a magnetic dot array. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 304, e486-e488.	2.3	3
23	Magnetization dynamics in nanopillars in the diffusive transport regime: Macrospin versus micromagnetic analysis. <i>Journal of Applied Physics</i> , 2009, 106, 113909.	2.5	2
24	Computational study of microwave oscillations in nonstandard spin valves in the diffusive transport limit. <i>Physical Review B</i> , 2010, 81, .	3.2	2
25	Nonlinear magnetotransport in dual spin valves. <i>Physical Review B</i> , 2010, 82, .	3.2	2
26	Estimation of transverse spin penetration length using second-harmonic measurement: Proposal of an experimental method. <i>Physical Review B</i> , 2016, 94, .	3.2	2
27	Current-Pulse-Induced Switching of Asymmetric Spin Valves. <i>Acta Physica Polonica A</i> , 2009, 115, 278-280.	0.5	2
28	The Effective Model of Chirality-chirality Correlations of the System of Magnetized Nano-loops. <i>European Physical Journal D</i> , 2004, 54, 117-120.	0.4	1
29	The perturbative construction of the effective soft-spin Hamiltonian of the system of magnetized nano-loops. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3624-3635.	1.5	1
30	The dynamical response to the node defect in thermally activated remagnetization of magnetic dot array. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1083-1088.	2.3	1
31	Static properties and current-induced dynamics of pinned magnetic domain walls under applied fields: An analytic approach. <i>Physical Review B</i> , 2018, 98, .	3.2	1
32	The statistical response to the point defect in thermally activated remagnetization of magnetic dot array. <i>Physics of Particles and Nuclei Letters</i> , 2008, 5, 207-210.	0.4	0
33	ELECTRICAL AND THERMAL CONTROL OF MAGNETIC MOMENTS. , 2015, , .		0
34	Defect Sensitivity of Magnetic Dot Arrays Influenced by Thermal Activation and Intradot Anisotropy. <i>Acta Physica Polonica A</i> , 2008, 113, 583-586.	0.5	0
35	Current-Induced Spin Accumulation and Spin Transfer Torque in a Néel Domain Wall. <i>Acta Physica Polonica A</i> , 2012, 121, 1210-1212.	0.5	0
36	Effects of Spin Pumping on Spin Waves in Antiferromagnetically Exchange-Coupled Double Layers with Surface Anisotropy. <i>Acta Physica Polonica A</i> , 2015, 128, 150-153.	0.5	0

#	ARTICLE	IF	CITATIONS
37	Interaction of In-Plane Magnetic Skyrmions with 90° Magnetic Domain Walls: Micromagnetic Simulations. Physical Review Applied, 2022, 17, .	3.8	0