

Karel Vyborny

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

426
citations

840776

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all docs

19
docs citations

19
times ranked

465
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically sharp domain walls in an antiferromagnet. <i>Science Advances</i> , 2022, 8, eabn3535.	10.3	12
2	Ceramic-Chromium Hall Sensors for Environments with High Temperatures and Neutron Radiation. <i>Sensors</i> , 2021, 21, 721.	3.8	14
3	Efficient Electrical Spin Splitter Based on Nonrelativistic Collinear Antiferromagnetism. <i>Physical Review Letters</i> , 2021, 126, 127701.	7.8	83
4	Landau level spectroscopy of the PbSnSe topological crystalline insulator. <i>Physical Review B</i> , 2021, 103, .	3.2	5
5	Broadband Terahertz Probes of Anisotropic Magnetoresistance Disentangle Extrinsic and Intrinsic Contributions. <i>Physical Review X</i> , 2021, 11, .	8.9	22
6	Calibration of the ITER outer vessel steady-state magnetic sensors. <i>Fusion Engineering and Design</i> , 2021, 168, 112398.	1.9	1
7	Antiferromagnetic CuMnAs: Ab initio description of finite temperature magnetism and resistivity. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167078.	2.3	3
8	Temperature dependence of the Hall coefficient of sensitive layer materials considered for DEMO Hall sensors. <i>Fusion Engineering and Design</i> , 2020, 153, 111454.	1.9	9
9	Status of steady-state magnetic diagnostic for ITER and outlook for possible materials of Hall sensors for DEMO. <i>Fusion Engineering and Design</i> , 2019, 146, 2397-2400.	1.9	16
10	Gap formation in helical edge states with magnetic impurities. <i>Physical Review B</i> , 2018, 98, .	3.2	6
11	Electronic structure and magnetic anisotropies of antiferromagnetic transition-metal difluorides. <i>Physical Review B</i> , 2018, 97, .	3.2	11
12	Magnetic field dependence of non-local lateral spin-valve signals beyond the Hanle effect. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 216007.	1.8	2
13	Charge-spin excitations of the Ising-type fractional quantum Hall ferromagnets. <i>Physical Review B</i> , 2009, 80, .	3.2	3
14	Microscopic mechanism of the noncrystalline anisotropic magnetoresistance in (Ga,Mn)As. <i>Physical Review B</i> , 2009, 80, .	3.2	15
15	Transport theory for disordered multiple-band systems: Anomalous Hall effect and anisotropic magnetoresistance. <i>Physical Review B</i> , 2009, 79, .	3.2	55
16	Semiclassical framework for the calculation of transport anisotropies. <i>Physical Review B</i> , 2009, 79, .	3.2	66
17	Anisotropic magnetoresistance of spin-orbit coupled carriers scattered from polarized magnetic impurities. <i>Physical Review B</i> , 2009, 80, .	3.2	61
18	Hybrid skew scattering regime of the anomalous Hall effect in Rashba systems: Unifying Keldysh, Boltzmann, and Kubo formalisms. <i>Physical Review B</i> , 2008, 78, .	3.2	26

#	ARTICLE	IF	CITATIONS
19	Transport gap in $\nu=1$ quantum Hall system: A probe for skyrmions. Physical Review B, 2006, 74, .	3.2	16