

# Karel Vyborny

## List of Publications by Year in descending order

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19  
papers

426  
citations

840776

11  
h-index

794594

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Electrical Spin Splitter Based on Nonrelativistic Collinear Antiferromagnetism. Physical Review Letters, 2021, 126, 127701.	7.8	83
2	Semiclassical framework for the calculation of transport anisotropies. Physical Review B, 2009, 79, .	3.2	66
3	Anisotropic magnetoresistance of spin-orbit coupled carriers scattered from polarized magnetic impurities. Physical Review B, 2009, 80, .	3.2	61
4	Transport theory for disordered multiple-band systems: Anomalous Hall effect and anisotropic magnetoresistance. Physical Review B, 2009, 79, .	3.2	55
5	Hybrid skew scattering regime of the anomalous Hall effect in Rashba systems: Unifying Keldysh, Boltzmann, and Kubo formalisms. Physical Review B, 2008, 78, .	3.2	26
6	Broadband Terahertz Probes of Anisotropic Magnetoresistance Disentangle Extrinsic and Intrinsic Contributions. Physical Review X, 2021, 11, .	8.9	22
7	Transport gap in $\alpha^{1/2}=1\hat{\alpha}^3$ quantum Hall system: A probe for skyrmions. Physical Review B, 2006, 74, .	3.2	16
8	Status of steady-state magnetic diagnostic for ITER and outlook for possible materials of Hall sensors for DEMO. Fusion Engineering and Design, 2019, 146, 2397-2400.	1.9	16
9	Microscopic mechanism of the noncrystalline anisotropic magnetoresistance in (Ga,Mn)As. Physical Review B, 2009, 80, .	3.2	15
10	Ceramic-Chromium Hall Sensors for Environments with High Temperatures and Neutron Radiation. Sensors, 2021, 21, 721.	3.8	14
11	Atomically sharp domain walls in an antiferromagnet. Science Advances, 2022, 8, eabn3535.	10.3	12
12	Electronic structure and magnetic anisotropies of antiferromagnetic transition-metal difluorides. Physical Review B, 2018, 97, .	3.2	11
13	Temperature dependence of the Hall coefficient of sensitive layer materials considered for DEMO Hall sensors. Fusion Engineering and Design, 2020, 153, 111454.	1.9	9
14	Gap formation in helical edge states with magnetic impurities. Physical Review B, 2018, 98, .	3.2	6
15	Landau level spectroscopy of the PbSnSe topological crystalline insulator. Physical Review B, 2021, 103, .	3.2	5
16	Charge-spin excitations of the Ising-type fractional quantum Hall ferromagnets. Physical Review B, 2009, 80, .	3.2	3
17	Antiferromagnetic CuMnAs: Ab initio description of finite temperature magnetism and resistivity. Journal of Magnetism and Magnetic Materials, 2020, 513, 167078.	2.3	3
18	Magnetic field dependence of non-local lateral spin-valve signals beyond the Hanle effect. Journal of Physics Condensed Matter, 2013, 25, 216007.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Calibration of the ITER outer vessel steady-state magnetic sensors. Fusion Engineering and Design, 2021, 168, 112398.	1.9	1