

# Matthias Eschrig

## List of Publications by Citations

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43  
papers

2,853  
citations

23  
h-index

48  
g-index

48  
ext. papers

3,256  
ext. citations

6.8  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
43	Spin-polarized supercurrents for spintronics. <i>Physics Today</i> , <b>2011</b> , 64, 43	0.9	321
42	Triplet supercurrents in clean and disordered half-metallic ferromagnets. <i>Nature Physics</i> , <b>2008</b> , 4, 138-143	16.2	292
41	Spin-polarized supercurrents for spintronics: a review of current progress. <i>Reports on Progress in Physics</i> , <b>2015</b> , 78, 104501	14.4	271
40	The effect of collective spin-1 excitations on electronic spectra in high- $T_c$ superconductors. <i>Advances in Physics</i> , <b>2006</b> , 55, 47-183	18.4	264
39	Neutron resonance: modeling photoemission and tunneling data in the superconducting state of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physical Review Letters</i> , <b>2000</b> , 85, 3261-4	7.4	181
38	Distribution functions in nonequilibrium theory of superconductivity and Andreev spectroscopy in unconventional superconductors. <i>Physical Review B</i> , <b>2000</b> , 61, 9061-9076	3.3	166
37	Spatially resolved electronic structure inside and outside the vortex cores of a high-temperature superconductor. <i>Nature</i> , <b>2001</b> , 413, 501-4	50.4	158
36	Symmetries of Pairing Correlations in Superconductor/Ferromagnet Nanostructures. <i>Journal of Low Temperature Physics</i> , <b>2007</b> , 147, 457-476	1.3	149
35	Superfluid Precursor Effects in a Model of Hybridized Bosons and Fermions. <i>Physical Review Letters</i> , <b>1995</b> , 74, 4027-4030	7.4	122
34	Surface bound states and spin currents in noncentrosymmetric superconductors. <i>Physical Review Letters</i> , <b>2008</b> , 101, 127003	7.4	95
33	Interplay of magnetic and superconducting proximity effects in ferromagnet-superconductor-ferromagnet trilayers. <i>Physical Review Letters</i> , <b>2005</b> , 95, 187003	7.4	88
32	Pairing symmetry conversion by spin-active interfaces in magnetic normal-metal-superconductor junctions. <i>Physical Review Letters</i> , <b>2009</b> , 102, 107008	7.4	82
31	Spin-dependent cooper pair phase and pure spin supercurrents in strongly polarized ferromagnets. <i>Physical Review Letters</i> , <b>2009</b> , 102, 227005	7.4	81
30	Enhanced spin pumping into superconductors provides evidence for superconducting pure spin currents. <i>Nature Materials</i> , <b>2018</b> , 17, 499-503	27	66
29	Scattering problem in nonequilibrium quasiclassical theory of metals and superconductors: General boundary conditions and applications. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	65
28	Signature of odd-frequency pairing correlations induced by a magnetic interface. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	63
27	0- $\pi$ Transitions in a superconductor/chiral ferromagnet/superconductor junction induced by a homogeneous cycloidal spiral. <i>Physical Review Letters</i> , <b>2008</b> , 100, 077003	7.4	39

26	Scaling of the superconducting gap with orbital character in FeSe. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	33
25	Theory of superconductor-ferromagnet point-contact spectra: The case of strong spin polarization. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	30
24	Is CrO <sub>2</sub> fully spin polarized? Analysis of Andreev spectra and excess current. <i>Physical Review Letters</i> , <b>2010</b> , 105, 207001	7-4	30
23	Singlet-Triplet Mixing in Superconductor-Ferromagnet Hybrid Devices. <i>Advances in Solid State Physics</i> , <b>2004</b> , 533-546		27
22	Phase diagrams of ferromagnet-superconductor multilayers with misaligned exchange fields. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	24
21	Effect of Meissner Screening and Trapped Magnetic Flux on Magnetization Dynamics in Thick Nb/Ni <sub>80</sub> Fe <sub>20</sub> /Nb Trilayers. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4-3	23
20	Superconducting proximity effect through a magnetic domain wall. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	21
19	Triplet Cooper pairs induced in diffusive s-wave superconductors interfaced with strongly spin-polarized magnetic insulators or half-metallic ferromagnets. <i>Scientific Reports</i> , <b>2017</b> , 7, 1932	4-9	20
18	Exchange-field enhancement of superconducting spin pumping. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	19
17	Inverse proximity effect and influence of disorder on triplet supercurrents in strongly spin-polarized ferromagnets. <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	17
16	Generation of pure superconducting spin current in magnetic heterostructures via nonlocally induced magnetism due to Landau Fermi liquid effects. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	17
15	Nonlocal conductance via overlapping Andreev bound states in ferromagnet-superconductor heterostructures. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	14
14	Corrections to Fermi-liquid theory of correlated metals. <i>Journal of Low Temperature Physics</i> , <b>1994</b> , 95, 323-327	1-3	11
13	Electronic dispersion anomalies in iron pnictide superconductors. <i>Physical Review Letters</i> , <b>2011</b> , 106, 047003	7-4	9
12	Tunable Pure Spin Supercurrents and the Demonstration of Their Gateability in a Spin-Wave Device. <i>Physical Review X</i> , <b>2020</b> , 10,	9-1	8
11	Properties of Interfaces and Surfaces in Non-centrosymmetric Superconductors. <i>Lecture Notes in Physics</i> , <b>2012</b> , 313-357	0-8	7
10	$k_z$ Selective Scattering within Quasiparticle Interference Measurements of FeSe. <i>Physical Review Letters</i> , <b>2019</b> , 123, 216404	7-4	7
9	Theory of Andreev bound states in S-F-S junctions and S-F proximity devices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2018</b> , 376,	3	7

8	Effect of spin fluctuations on the electronic structure in iron-based superconductors. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	5
7	A Numerical Study of the Superconducting Proximity Effect in Topological Surface States. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 391, 012149	0.3	4
6	Magnetic skyrmion lattice by the Fourier transform method. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
5	Non-local dxy nematicity and the missing electron pocket in FeSe. <i>Npj Quantum Materials</i> , <b>2021</b> , 6,	5	3
4	Theory of surface spectroscopy for noncentrosymmetric superconductors. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	2
3	Tailoring the Fulde-Ferrell-Larkin-Ovchinnikov state. <i>Annalen Der Physik</i> , <b>2012</b> , 524, A65-A67	2.6	2
2	Electromagnetic response of a pancake vortex in high-T <sub>c</sub> superconductors. <i>European Physical Journal D</i> , <b>1996</b> , 46, 987-988		1
1	Phase-Sensitive Interface and Proximity Effects in Superconducting Spintronics <b>2019</b> , 635-682		