

# Steffen Wiedmann

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64

papers

5,513

citations

20

h-index

72

g-index

72

ext. papers

6,365

ext. citations

5.8

avg, IF

5.06

L-index

#	Paper	IF	Citations
64	Insulator-to-metal crossover near the edge of the superconducting dome in Nd <sub>1-x</sub> Sr <sub>x</sub> NiO <sub>2</sub> . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
63	Thermopower across the phase diagram of the cuprate La <sub>1.6-x</sub> Nd <sub>0.4</sub> Sr <sub>x</sub> CuO <sub>4</sub> : Signatures of the pseudogap and charge density wave phases. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	7
62	Structural and electronic inhomogeneity of superconducting Nb-doped Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
61	Transport signatures of the pseudogap critical point in the cuprate superconductor Bi <sub>2</sub> Sr <sub>2-x</sub> La <sub>x</sub> CuO <sub>6+δ</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	3
60	Anomalous Shubnikov-de Haas quantum oscillations in rare-earth tritelluride NdTe <sub>3</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
59	Two- and Three-Dimensional Superconducting Phases in the Weyl Semimetal TaP at Ambient Pressure. <i>Crystals</i> , <b>2020</b> , 10, 288	2.3	1
58	Determination of the Fermi surface and field-induced quasiparticle tunneling around the Dirac nodal loop in ZrSiS. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	5
57	Giant Seebeck effect across the field-induced metal-insulator transition of InAs. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	2
56	Tuning the Structural and Optoelectronic Properties of Cs AgBiBr Double-Perovskite Single Crystals through Alkali-Metal Substitution. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001878	24	34
55	Field-induced insulating states in a graphene superlattice. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
54	Observation of an Odd-Integer Quantum Hall Effect from Topological Surface States in Cd <sub>3</sub> As <sub>2</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 122, 036602	7.4	30
53	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900521	24	53
52	Negative Thermal Expansion in the Plateau State of a Magnetically Frustrated Spinel. <i>Physical Review Letters</i> , <b>2019</b> , 123, 027205	7.4	5
51	High-temperature quantum oscillations of the Hall resistance in bulk BiSe. <i>Scientific Reports</i> , <b>2018</b> , 8, 485	4.9	9
50	High field charge order across the phase diagram of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	28
49	Unconventional mass enhancement around the Dirac nodal loop in ZrSiS. <i>Nature Physics</i> , <b>2018</b> , 14, 178-188.	8.2	85
48	Light- and Temperature-Modulated Magneto-Transport in Organic-Inorganic Lead Halide Perovskites. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 39-45	20.1	11

47	Electron-Hole Tunneling Revealed by Quantum Oscillations in the Nodal-Line Semimetal HfSiS. <i>Physical Review Letters</i> , <b>2018</b> , 121, 256602	7.4	18
46	Shubnikov-De Haas oscillations in topological crystalline insulator SnTe(111) epitaxial films. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	14
45	Electron-hole asymmetry of the topological surface states in strained HgTe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3381-3386	11.5	10
44	Quantum interference in a macroscopic van der Waals conductor. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	2
43	Coexistence of bulk and surface states probed by Shubnikov-De Haas oscillations in Bi <sub>2</sub> Se <sub>3</sub> with high charge-carrier density. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	16
42	The world's smallest capacitive dilatometer, for high-resolution thermal expansion and magnetostriction in high magnetic fields. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 083903	1.7	11
41	Bulk and in-gap states in SmB <sub>6</sub> revealed by high-field magnetotransport. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	8
40	Fermi-surface transformation across the pseudogap critical point of the cuprate superconductor La <sub>1.6</sub> Nd <sub>0.4</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	54
39	Thermodynamic signatures of the field-induced states of graphite. <i>Nature Communications</i> , <b>2017</b> , 8, 13371	7.4	12
38	High-temperature quantum Hall effect in finite gapped HgTe quantum wells. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	12
37	Quantum oscillations of the topological surface states in low carrier concentration crystals of Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> . <i>Solid State Communications</i> , <b>2016</b> , 227, 13-18	1.6	5
36	Linear Magnetoresistance in a Quasifree Two-Dimensional Electron Gas in an Ultrahigh Mobility GaAs Quantum Well. <i>Physical Review Letters</i> , <b>2016</b> , 117, 256601	7.4	32
35	Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. <i>Science</i> , <b>2016</b> , 353, 575-9	33.3	63
34	Magnetotransport in single-layer graphene in a large parallel magnetic field. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
33	Anisotropic and strong negative magnetoresistance in the three-dimensional topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	42
32	Topological Insulators in Two Dimensions <b>2015</b> , 31-54		1
31	Lifting of the Landau level degeneracy in graphene devices in a tilted magnetic field. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	13
30	Temperature-driven transition from a semiconductor to a topological insulator. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	25

29	Transport and thermoelectric properties of the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	7
28	Systematic study of doping dependence on linear magnetoresistance in p-PbTe. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 162108	3.4	5
27	Magnetothermoelectric properties of Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	42
26	Interaction phenomena in graphene seen through quantum capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3282-6	11.5	197
25	Quantized coexisting electrons and holes in graphene measured using temperature-dependent magnetotransport. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	6
24	Evolution of the Fermi surface of a doped topological insulator with carrier concentration. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	79
23	Shubnikov-de Haas effect in tilted magnetic fields in wide quantum well. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 456, 012025	0.3	
22	Probing the surface states in Bi <sub>2</sub> Se <sub>3</sub> using the Shubnikov-de Haas effect. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	43
21	Fractional quantum Hall effect in second subband of a 2DES. <i>Europhysics Letters</i> , <b>2011</b> , 94, 37010	1.6	2
20	Coexistence of electron and hole transport in graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	21
19	Zero-resistance states in bilayer electron systems induced by microwave irradiation. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012014	0.3	
18	Emergent fractional quantum Hall effect at even denominator $\nu = 3/2$ in a triple quantum well in tilted magnetic fields. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012026	0.3	1
17	Microwave-induced Hall resistance in bilayer electron systems. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	5
16	Evidence for zero-differential resistance states in electronic bilayers. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	14
15	Nonlinear transport phenomena in a two-subband system. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	19
14	Crossover between distinct mechanisms of microwave photoresistance in bilayer systems. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	26
13	Microwave zero-resistance states in a bilayer electron system. <i>Physical Review Letters</i> , <b>2010</b> , 105, 026804	4.4	56
12	Thermally activated intersubband scattering and oscillating magnetoresistance in quantum wells. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	14

11	Magnetoresistance oscillations in triple quantum wells under microwave irradiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 2614-2617	3	
10	Integer and fractional microwave induced resistance oscillations in a 2D system with moderate mobility. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 1078-1080	3	
9	Magneto-intersubband oscillations in triple quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 1088-1090	3	3
8	Microwave induced magnetoresistance oscillations and inelastic scattering time in double quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 1075-1077	3	1
7	High-order fractional microwave-induced resistance oscillations in two-dimensional systems. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	15
6	Emergent and reentrant fractional quantum Hall effect in trilayer systems in a tilted magnetic field. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	7
5	Magnetoresistance oscillations in multilayer systems: Triple quantum wells. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	33
4	MAGNETORESISTANCE OSCILLATIONS IN DOUBLE QUANTUM WELLS UNDER MICROWAVE IRRADIATION. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 2943-2947	1.1	
3	Interference oscillations of microwave photoresistance in double quantum wells. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	73
2	Quantum spin hall insulator state in HgTe quantum wells. <i>Science</i> , <b>2007</b> , 318, 766-70	33-3	4215
1	Massive Magnetostriction of the Paramagnetic Insulator $\text{KEr}(\text{MoO}_4)_2$ via a Single-Ion Effect. <i>Advanced Electronic Materials</i> , 2100770	6.4	