

Steffen Wiedmann

List of Publications by Citations

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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	Quantum spin hall insulator state in HgTe quantum wells. <i>Science</i> , 2007 , 318, 766-70	33.3	4215
63	Interaction phenomena in graphene seen through quantum capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3282-6	11.5	197
62	Unconventional mass enhancement around the Dirac nodal loop in ZrSiS. <i>Nature Physics</i> , 2018 , 14, 178-183	8.2	85
61	Evolution of the Fermi surface of a doped topological insulator with carrier concentration. <i>Physical Review B</i> , 2013 , 88,	3.3	79
60	Interference oscillations of microwave photoresistance in double quantum wells. <i>Physical Review B</i> , 2008 , 78,	3.3	73
59	Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. <i>Science</i> , 2016 , 353, 575-9	33.3	63
58	Microwave zero-resistance states in a bilayer electron system. <i>Physical Review Letters</i> , 2010 , 105, 026804	7.4	56
57	Fermi-surface transformation across the pseudogap critical point of the cuprate superconductor La _{1.6} Nd _{0.4} SrCuO ₄ . <i>Physical Review B</i> , 2017 , 95,	3.3	54
56	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. <i>Advanced Materials</i> , 2019 , 31, e1900521	24	53
55	Probing the surface states in Bi ₂ Se ₃ using the Shubnikov-de Haas effect. <i>Physical Review B</i> , 2012 , 86,	3.3	43
54	Magnetothermoelectric properties of Bi ₂ Se ₃ . <i>Physical Review B</i> , 2013 , 87,	3.3	42
53	Anisotropic and strong negative magnetoresistance in the three-dimensional topological insulator Bi ₂ Se ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	42
52	Tuning the Structural and Optoelectronic Properties of Cs AgBiBr Double-Perovskite Single Crystals through Alkali-Metal Substitution. <i>Advanced Materials</i> , 2020 , 32, e2001878	24	34
51	Magnetoresistance oscillations in multilayer systems: Triple quantum wells. <i>Physical Review B</i> , 2009 , 80,	3.3	33
50	Linear Magnetoresistance in a Quasifree Two-Dimensional Electron Gas in an Ultrahigh Mobility GaAs Quantum Well. <i>Physical Review Letters</i> , 2016 , 117, 256601	7.4	32
49	Observation of an Odd-Integer Quantum Hall Effect from Topological Surface States in Cd ₃ As ₂ . <i>Physical Review Letters</i> , 2019 , 122, 036602	7.4	30
48	High field charge order across the phase diagram of YBa ₂ Cu ₃ O _y . <i>Npj Quantum Materials</i> , 2018 , 3,	5	28

47	Crossover between distinct mechanisms of microwave photoresistance in bilayer systems. <i>Physical Review B</i> , 2010 , 81,	3-3	26
46	Temperature-driven transition from a semiconductor to a topological insulator. <i>Physical Review B</i> , 2015 , 91,	3-3	25
45	Coexistence of electron and hole transport in graphene. <i>Physical Review B</i> , 2011 , 84,	3-3	21
44	Nonlinear transport phenomena in a two-subband system. <i>Physical Review B</i> , 2011 , 84,	3-3	19
43	Electron-Hole Tunneling Revealed by Quantum Oscillations in the Nodal-Line Semimetal HfSiS. <i>Physical Review Letters</i> , 2018 , 121, 256602	7-4	18
42	Coexistence of bulk and surface states probed by Shubnikov-De Haas oscillations in Bi ₂ Se ₃ with high charge-carrier density. <i>Physical Review B</i> , 2017 , 96,	3-3	16
41	High-order fractional microwave-induced resistance oscillations in two-dimensional systems. <i>Physical Review B</i> , 2009 , 80,	3-3	15
40	Thermally activated intersubband scattering and oscillating magnetoresistance in quantum wells. <i>Physical Review B</i> , 2010 , 82,	3-3	14
39	Evidence for zero-differential resistance states in electronic bilayers. <i>Physical Review B</i> , 2011 , 83,	3-3	14
38	Shubnikov-De Haas oscillations in topological crystalline insulator SnTe(111) epitaxial films. <i>Physical Review B</i> , 2018 , 98,	3-3	14
37	Lifting of the Landau level degeneracy in graphene devices in a tilted magnetic field. <i>Physical Review B</i> , 2015 , 92,	3-3	13
36	High-temperature quantum Hall effect in finite gapped HgTe quantum wells. <i>Physical Review B</i> , 2016 , 93,	3-3	12
35	Thermodynamic signatures of the field-induced states of graphite. <i>Nature Communications</i> , 2017 , 8, 13377.4	7-4	12
34	The world's smallest capacitive dilatometer, for high-resolution thermal expansion and magnetostriction in high magnetic fields. <i>Review of Scientific Instruments</i> , 2017 , 88, 083903	1-7	11
33	Light- and Temperature-Modulated Magneto-Transport in Organic-Inorganic Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2018 , 3, 39-45	20-1	11
32	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> , 2017 , 114, 3381-3386	11-5	10
31	High-temperature quantum oscillations of the Hall resistance in bulk BiSe. <i>Scientific Reports</i> , 2018 , 8, 485	4-9	9
30	Bulk and in-gap states in SmB ₆ revealed by high-field magnetotransport. <i>Physical Review B</i> , 2017 , 96,	3-3	8

29	Transport and thermoelectric properties of the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2015 , 91,	3-3	7
28	Emergent and reentrant fractional quantum Hall effect in trilayer systems in a tilted magnetic field. <i>Physical Review B</i> , 2009 , 80,	3-3	7
27	Thermopower across the phase diagram of the cuprate La _{1.6} Nd _{0.4} Sr _x CuO ₄ : Signatures of the pseudogap and charge density wave phases. <i>Physical Review B</i> , 2021 , 103,	3-3	7
26	Quantized coexisting electrons and holes in graphene measured using temperature-dependent magnetotransport. <i>Physical Review B</i> , 2013 , 87,	3-3	6
25	Magnetotransport in single-layer graphene in a large parallel magnetic field. <i>Physical Review B</i> , 2016 , 94,	3-3	6
24	Quantum oscillations of the topological surface states in low carrier concentration crystals of Bi ₂ Sb _x Te ₃ Se _y . <i>Solid State Communications</i> , 2016 , 227, 13-18	1.6	5
23	Negative Thermal Expansion in the Plateau State of a Magnetically Frustrated Spinel. <i>Physical Review Letters</i> , 2019 , 123, 027205	7-4	5
22	Systematic study of doping dependence on linear magnetoresistance in p-PbTe. <i>Applied Physics Letters</i> , 2014 , 105, 162108	3-4	5
21	Microwave-induced Hall resistance in bilayer electron systems. <i>Physical Review B</i> , 2011 , 83,	3-3	5
20	Determination of the Fermi surface and field-induced quasiparticle tunneling around the Dirac nodal loop in ZrSiS. <i>Physical Review Research</i> , 2020 , 2,	3-9	5
19	Structural and electronic inhomogeneity of superconducting Nb-doped Bi ₂ Se ₃ . <i>Physical Review B</i> , 2021 , 103,	3-3	4
18	Anomalous Shubnikov-de Haas quantum oscillations in rare-earth tritelluride NdTe ₃ . <i>Physical Review B</i> , 2020 , 102,	3-3	3
17	Magneto-intersubband oscillations in triple quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1088-1090	3	3
16	Transport signatures of the pseudogap critical point in the cuprate superconductor Bi ₂ Sr ₂ LaxCuO ₆ + \square . <i>Physical Review B</i> , 2021 , 104,	3-3	3
15	Quantum interference in a macroscopic van der Waals conductor. <i>Physical Review B</i> , 2017 , 95,	3-3	2
14	Field-induced insulating states in a graphene superlattice. <i>Physical Review B</i> , 2019 , 99,	3-3	2
13	Fractional quantum Hall effect in second subband of a 2DES. <i>Europhysics Letters</i> , 2011 , 94, 37010	1.6	2
12	Insulator-to-metal crossover near the edge of the superconducting dome in Nd _{1-x} Sr _x NiO ₂ . <i>Physical Review Research</i> , 2021 , 3,	3-9	2

11	Giant Seebeck effect across the field-induced metal-insulator transition of InAs. <i>Npj Quantum Materials</i> , 2020 , 5,	5	2
10	Topological Insulators in Two Dimensions 2015 , 31-54		1
9	Two- and Three-Dimensional Superconducting Phases in the Weyl Semimetal TaP at Ambient Pressure. <i>Crystals</i> , 2020 , 10, 288	2.3	1
8	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> , 2011 , 334, 012026	0.3	1
7	Microwave induced magnetoresistance oscillations and inelastic scattering time in double quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1075-1077	3	1
6	Shubnikov-de Haas effect in tilted magnetic fields in wide quantum well. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012025	0.3	
5	Zero-resistance states in bilayer electron systems induced by microwave irradiation. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012014	0.3	
4	MAGNETORESISTANCE OSCILLATIONS IN DOUBLE QUANTUM WELLS UNDER MICROWAVE IRRADIATION. <i>International Journal of Modern Physics B</i> , 2009 , 23, 2943-2947	1.1	
3	Magnetoresistance oscillations in triple quantum wells under microwave irradiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2614-2617	3	
2	Integer and fractional microwave induced resistance oscillations in a 2D system with moderate mobility. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1078-1080	3	
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	