

Steffen Wiedmann

List of Publications by Year in descending order

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71
papers

6,870
citations

331259

21
h-index

102304

66
g-index

72
all docs

72
docs citations

72
times ranked

7794
citing authors

#	ARTICLE	IF	CITATIONS
1	Fermi surface and nested magnetic breakdown in WTe_2 . Physical Review Research, 2022, 4, .		
2	Massive Magnetostriction of the Paramagnetic Insulator $\text{KEr}(\text{MoO}_4)_2$ via a Single-Ion Effect. Advanced Electronic Materials, 2022, 8, .	2.6	4
3	Correlated Insulating Behavior in Infinite-Layer Nickelates. Frontiers in Physics, 2022, 10, .	1.0	2
4	Anomalous vortex liquid in charge-ordered cuprate superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2016275118.	3.3	3
5	Structural and electronic inhomogeneity of superconducting Nb-doped Bi_2Te_3 . Physical Review B, 2021, 103, .		
6	Thermopower across the phase diagram of the cuprate $\text{La}_{1.6}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$: Signatures of the pseudogap and charge density wave phases. Physical Review B, 2021, 103, .	1.1	21
7	Local structure of Nb in superconducting Nb-doped Bi_2Te_3 . Physical Review B, 2021, 103, .		
8	Quantum Hall effect and Shubnikov-de Haas oscillations in a high-mobility p -type PbTe quantum well. Physical Review B, 2021, 103, .	1.1	7
9	Multiple field-induced phases in the frustrated triangular magnet $\text{Sr}_2\text{Cu}_2\text{O}_7$. Physical Review B, 2021, 104, .	1.1	15
10	Multiple field-induced phases in the frustrated triangular magnet $\text{Cs}_2\text{Cu}_2\text{O}_7$. Physical Review B, 2021, 104, .	1.3	10
11	Insulator-to-metal crossover near the edge of the superconducting dome in Nd_2CuO_4 . Physical Review Research, 2021, 3, .		
12	Evidence for strong electron correlations in a nonsymmorphic Dirac semimetal. Npj Quantum Materials, 2021, 6, .	1.8	3
13	Tuning the Structural and Optoelectronic Properties of $\text{Cs}_2\text{AgBiBr}_6$ Double-Perovskite Single Crystals through Alkali-Metal Substitution. Advanced Materials, 2020, 32, e2001878.	11.1	72
14	Anomalous Shubnikov-de Haas quantum oscillations in rare-earth tritelluride NdTe_3 . Physical Review B, 2020, 102, .		
15	Two- and Three-Dimensional Superconducting Phases in the Weyl Semimetal TaP at Ambient Pressure. Crystals, 2020, 10, 288.	1.0	10
16	Giant Seebeck effect across the field-induced metal-insulator transition of InAs . Npj Quantum Materials, 2020, 5, .	1.8	8
17	Determination of the Fermi surface and field-induced quasiparticle tunneling around the Dirac nodal loop in ZrSiS . Physical Review Research, 2020, 2, .	1.3	15
18	Negative Thermal Expansion in the Plateau State of a Magnetically Frustrated Spinel. Physical Review Letters, 2019, 123, 027205.	2.9	13

#	ARTICLE	IF	CITATIONS
19	Field-induced insulating states in a graphene superlattice. Physical Review B, 2019, 99, .	1.1	2
20	Observation of an Odd-Integer Quantum Hall Effect from Topological Surface States in CdMnTe . Physical Review Letters, 2019, 122, 036602.	2.9	50
21	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. Advanced Materials, 2019, 31, e1900521.	11.1	88
22	Magnetoresistance in the in-plane magnetic field induced semimetallic phase of inverted HgTe quantum wells. Physical Review B, 2019, 99, .	1.1	3
23	High-temperature quantum oscillations of the Hall resistance in bulk Bi ₂ Se ₃ . Scientific Reports, 2018, 8, 485.	1.6	17
24	Unconventional mass enhancement around the Dirac nodal loop in ZrSiS. Nature Physics, 2018, 14, 178-183.	6.5	129
25	Light- and Temperature-Modulated Magneto-Transport in Organic-Inorganic Lead Halide Perovskites. ACS Energy Letters, 2018, 3, 39-45.	8.8	15
26	Electron-Hole Tunneling Revealed by Quantum Oscillations in the Nodal-Line Semimetal HfSiS. Physical Review Letters, 2018, 121, 256602.	2.9	33
27	Shubnikov-de Haas oscillations in topological crystalline insulator SnTe(111) epitaxial films. Physical Review B, 2018, 98, .	1.1	19
28	High field charge order across the phase diagram of YBa ₂ Cu ₃ O _y . Npj Quantum Materials, 2018, 3, .	1.8	32
29	Electron-hole asymmetry of the topological surface states in strained HgTe. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3381-3386.	3.3	16
30	Quantum interference in a macroscopic van der Waals conductor. Physical Review B, 2017, 95, .	1.1	4
31	Coexistence of bulk and surface states probed by Shubnikov-de Haas oscillations in Bi_2Te_3 with high charge-carrier density. Physical Review B, 2017, 96, .	1.1	19
32	The world's smallest capacitive dilatometer, for high-resolution thermal expansion and magnetostriction in high magnetic fields. Review of Scientific Instruments, 2017, 88, 083903.	0.6	23
33	Bulk and in-gap states in SmB ₆ revealed by high-field magnetotransport. Physical Review B, 2017, 96, .	1.1	10
34	Fermi-surface transformation across the pseudogap critical point of the cuprate superconductor $\text{La}_{1-x}\text{F}_x\text{BiO}_3$. Physical Review B, 2017, 95, .	1.1	78
35	Thermodynamic signatures of the field-induced states of graphite. Nature Communications, 2017, 8, 1337.	5.8	17
36	Linear Magnetoresistance in a Quasifree Two-Dimensional Electron Gas in an Ultrahigh Mobility GaAs Quantum Well. Physical Review Letters, 2016, 117, 256601.	2.9	47

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37	Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. Science, 2016, 353, 575-579.	6.0	88
38	Magnetotransport in single-layer graphene in a large parallel magnetic field. Physical Review B, 2016, 94, .	1.1	11
39	Anisotropic and strong negative magnetoresistance in the three-dimensional topological insulator Bi_2Te_3 . Physical Review B, 2016, 94, .	1.1	59
40	High-temperature quantum Hall effect in finite gapped HgTe quantum wells. Physical Review B, 2016, 93, .	1.1	19
41	Quantum oscillations of the topological surface states in low carrier concentration crystals of Bi_2Te_3 . Physical Review B, 2016, 93, .	0.9	6
42	Lifting of the Landau level degeneracy in graphene devices in a tilted magnetic field. Physical Review B, 2015, 92, .	1.1	16
43	Temperature-driven transition from a semiconductor to a topological insulator. Physical Review B, 2015, 91, .	1.1	29
44	Transport and thermoelectric properties of the $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructure. Physical Review B, 2015, 91, .	1.1	18
45	Systematic study of doping dependence on linear magnetoresistance in p-PbTe . Applied Physics Letters, 2014, 105, .	1.5	5
46	Magnetothermoelectric properties of Bi_2Se_3 . Physical Review B, 2013, 87, .	1.1	49
47	Interaction phenomena in graphene seen through quantum capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3282-3286.	3.3	239
48	Quantized coexisting electrons and holes in graphene measured using temperature-dependent magnetotransport. Physical Review B, 2013, 87, .	1.1	6
49	Evolution of the Fermi surface of a doped topological insulator with carrier concentration. Physical Review B, 2013, 88, .	1.1	92
50	Shubnikov-de Haas effect in tilted magnetic fields in wide quantum well. Journal of Physics: Conference Series, 2013, 456, 012025.	0.3	0
51	Probing the surface states in Bi_2Te_3 using the Shubnikov-de Haas effect. Physical Review B, 2012, 86, .	1.1	48
52	Fractional quantum Hall effect in second subband of a 2DES. Europhysics Letters, 2011, 94, 37010.	0.7	2
53	Coexistence of electron and hole transport in graphene. Physical Review B, 2011, 84, .	1.1	23
54	Zero-resistance states in bilayer electron systems induced by microwave irradiation. Journal of Physics: Conference Series, 2011, 334, 012014.	0.3	0

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55	Emergent fractional quantum Hall effect at even denominator $\nu = 3/2$ in a triple quantum well in tilted magnetic fields. Journal of Physics: Conference Series, 2011, 334, 012026.	0.3	1
56	Microwave-induced Hall resistance in bilayer electron systems. Physical Review B, 2011, 83, .	1.1	5
57	Evidence for zero-differential resistance states in electronic bilayers. Physical Review B, 2011, 83, .	1.1	14
58	Nonlinear transport phenomena in a two-subband system. Physical Review B, 2011, 84, .	1.1	20
59	Magnetoresistance oscillations in triple quantum wells under microwave irradiation. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2614-2617.	1.3	0
60	Integer and fractional microwave induced resistance oscillations in a 2D system with moderate mobility. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1078-1080.	1.3	0
61	Magneto-intersubband oscillations in triple quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1088-1090.	1.3	3
62	Microwave induced magnetoresistance oscillations and inelastic scattering time in double quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1075-1077.	1.3	1
63	Crossover between distinct mechanisms of microwave photoresistance in bilayer systems. Physical Review B, 2010, 81, .	1.1	29
64	Microwave Zero-Resistance States in a Bilayer Electron System. Physical Review Letters, 2010, 105, 026804.	2.9	62
65	Thermally activated intersubband scattering and oscillating magnetoresistance in quantum wells. Physical Review B, 2010, 82, .	1.1	15
66	High-order fractional microwave-induced resistance oscillations in two-dimensional systems. Physical Review B, 2009, 80, .	1.1	16
67	Emergent and reentrant fractional quantum Hall effect in trilayer systems in a tilted magnetic field. Physical Review B, 2009, 80, .	1.1	7
68	Magnetoresistance oscillations in multilayer systems: Triple quantum wells. Physical Review B, 2009, 80, .	1.1	35
69	MAGNETORESISTANCE OSCILLATIONS IN DOUBLE QUANTUM WELLS UNDER MICROWAVE IRRADIATION. International Journal of Modern Physics B, 2009, 23, 2943-2947.	1.0	0
70	Interference oscillations of microwave photoresistance in double quantum wells. Physical Review B, 2008, 78, .	1.1	74
71	Quantum Spin Hall Insulator State in HgTe Quantum Wells. Science, 2007, 318, 766-770.	6.0	5,070