

Balzs Dra

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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.

106
papers

2,263
citations

23
h-index

45
g-index

115
ext. papers

2,689
ext. citations

3.9
avg, IF

5.4
L-index

#	Paper	IF	Citations
106	Floquet topological insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 101-108	2.5	285
105	Tunable band gap in hydrogenated quasi-free-standing graphene. <i>Nano Letters</i> , 2010 , 10, 3360-6	11.5	278
104	Optically engineering the topological properties of a spin Hall insulator. <i>Physical Review Letters</i> , 2012 , 108, 056602	7.4	145
103	Disentangling dynamical phase transitions from equilibrium phase transitions. <i>Physical Review B</i> , 2014 , 89,	3.3	109
102	Topological classification of dynamical phase transitions. <i>Physical Review B</i> , 2015 , 91,	3.3	106
101	Lattice generalization of the Dirac equation to general spin and the role of the flat band. <i>Physical Review B</i> , 2011 , 84,	3.3	105
100	Detecting Equilibrium and Dynamical Quantum Phase Transitions in Ising Chains via Out-of-Time-Ordered Correlators. <i>Physical Review Letters</i> , 2018 , 121, 016801	7.4	64
99	Crossover from adiabatic to sudden interaction quench in a Luttinger liquid. <i>Physical Review Letters</i> , 2011 , 106, 156406	7.4	52
98	Out-of-Time-Ordered Density Correlators in Luttinger Liquids. <i>Physical Review Letters</i> , 2017 , 119, 026802	7.4	50
97	Loschmidt echo and the many-body orthogonality catastrophe in a qubit-coupled Luttinger liquid. <i>Physical Review Letters</i> , 2013 , 111, 046402	7.4	49
96	Direct observation of a dispersionless impurity band in hydrogenated graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	48
95	Thermodynamics and optical conductivity of unconventional spin density waves. <i>European Physical Journal B</i> , 2001 , 22, 167-178	1.2	45
94	Generalized Gibbs ensemble and work statistics of a quenched Luttinger liquid. <i>Physical Review B</i> , 2012 , 86,	3.3	44
93	Spin gap and Luttinger liquid description of the NMR relaxation in carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 99, 166402	7.4	40
92	Unconventional charge-density wave in the organic conductor alpha-(BEDT-TTF)2KHg(SCN)4. <i>Physical Review Letters</i> , 2003 , 90, 256402	7.4	38
91	Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. <i>Physical Review B</i> , 2013 , 88,	3.3	34
90	Occurrence of nematic, topological, and Berry phases when a flat and a parabolic band touch. <i>Physical Review B</i> , 2014 , 90,	3.3	33

89	Frequency-dependent magneto-optical conductivity in the generalized \mathbb{Z}_3 model. <i>Physical Review B</i> , 2017 , 95,	3.3	32
88	Electron spin resonance signal of Luttinger liquids and single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2008 , 101, 106408	7.4	32
87	Valley symmetry breaking in bilayer graphene: a test of the minimal model. <i>Physical Review Letters</i> , 2009 , 103, 266804	7.4	29
86	MICROMAGNETISM IN URu ₂ Si ₂ AND HIGH TEMPERATURE SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , 2002 , 16, 1667-1671	1.1	29
85	RECENT ADVANCES IN UNCONVENTIONAL DENSITY WAVES. <i>Modern Physics Letters B</i> , 2004 , 18, 327-344.	1.6	25
84	Persistent currents in Dirac fermion rings. <i>Physical Review B</i> , 2013 , 88,	3.3	23
83	Full counting statistics of time-of-flight images. <i>Physical Review A</i> , 2017 , 95,	2.6	22
82	Linear quantum quench in the Heisenberg XXZ chain: Time-dependent Luttinger-model description of a lattice system. <i>Physical Review B</i> , 2013 , 87,	3.3	22
81	Unusual hyperfine interaction of dirac electrons and NMR spectroscopy in graphene. <i>Physical Review Letters</i> , 2009 , 102, 197602	7.4	22
80	Disorder promotes ferromagnetism: rounding of the quantum phase transition in Sr(1-x)Ca(x)RuO ₃ . <i>Physical Review Letters</i> , 2012 , 108, 185701	7.4	22
79	Electron spin dynamics and electron spin resonance in graphene. <i>Europhysics Letters</i> , 2010 , 92, 17002	1.6	21
78	Dynamics of the spin Hall effect in topological insulators and graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	21
77	Anomalous hyperfine coupling and nuclear magnetic relaxation in Weyl semimetals. <i>Physical Review B</i> , 2016 , 94,	3.3	19
76	The Kibble-Zurek mechanism at exceptional points. <i>Nature Communications</i> , 2019 , 10, 2254	17.4	18
75	Giant Nernst effect in the pseudogap phase of high T _c superconductors. <i>Current Applied Physics</i> , 2004 , 4, 693-695	2.6	18
74	The angular-dependent magnetoresistance in \mathbb{Z}_2 (BEDT-TTF) ₂ KHg(SCN) ₄ . <i>Europhysics Letters</i> , 2002 , 60, 737-742	1.6	17
73	Density of states deduced from ESR measurements on low-dimensional nanostructures; benchmarks to identify the ESR signals of graphene and SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2688-2691	1.3	16
72	Spin resonance in the ordered magnetic state of Ni ₅ (TeO ₃) ₄ Cl ₂ . <i>Physical Review B</i> , 2006 , 74,	3.3	15

71	Nuclear spin-lattice relaxation time in TaP and the Knight shift of Weyl semimetals. <i>Physical Review B</i> , 2019 , 99,	3-3	14
70	From Floquet to Dicke: Quantum Spin Hall Insulator Interacting with Quantum Light. <i>Physical Review Letters</i> , 2015 , 115, 160402	7-4	14
69	Testing the Elliott-Yafet spin-relaxation mechanism in KC8: A model system of biased graphene. <i>Physical Review B</i> , 2012 , 85,	3-3	14
68	Coupling, merging, and splitting Dirac points by electron-electron interaction. <i>Physical Review B</i> , 2013 , 88,	3-3	13
67	Quantum quench in the Luttinger model with finite temperature initial state. <i>Physical Review B</i> , 2013 , 88,	3-3	13
66	Unconventional spin density wave in Bechgaard salt (TMTSF) 2 PF 6. <i>Europhysics Letters</i> , 2004 , 67, 1024-1030	10-30	13
65	Topological and trivial magnetic oscillations in nodal loop semimetals. <i>Physical Review B</i> , 2018 , 97,	3-3	12
64	Generalized Elliott-Yafet theory of electron spin relaxation in metals: origin of the anomalous electron spin lifetime in MgB2. <i>Physical Review Letters</i> , 2008 , 101, 177003	7-4	12
63	Electron-spin dynamics in strongly correlated metals. <i>Physical Review Letters</i> , 2009 , 102, 137001	7-4	11
62	Floquet topological phases coupled to environments and the induced photocurrent. <i>Physical Review B</i> , 2016 , 94,	3-3	11
61	Theory and model analysis of spin relaxation time in graphene [Could it be used for spintronics?]. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2631-2634	1-3	10
60	Information scrambling at an impurity quantum critical point. <i>Physical Review B</i> , 2017 , 96,	3-3	9
59	Gossamer superconductivity, new paradigm?. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 37-45	1-3	9
58	Intuitive approach to the unified theory of spin relaxation. <i>Physical Review B</i> , 2017 , 96,	3-3	8
57	Scaling behavior of angular-dependent resistivity in CeCoIn5: Possible evidence for d-wave density waves. <i>Physical Review B</i> , 2006 , 73,	3-3	8
56	Magnetotransport in d -wave density waves. <i>Europhysics Letters</i> , 2005 , 72, 624-630	1-6	8
55	Momentum-Space Entanglement and Loschmidt Echo in Luttinger Liquids after a Quantum Quench. <i>Physical Review Letters</i> , 2016 , 117, 010603	7-4	7
54	Enhanced NMR relaxation of Tomonaga-Luttinger liquids and the magnitude of the carbon hyperfine coupling in single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 187204	7-4	7

53	Hyperfine interaction in graphene: The relevance for spintronics. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2935-2940	1.3	7
52	Optical conductivity of superconducting Sr ₂ RuO ₄ . <i>Europhysics Letters</i> , 2003 , 62, 426-432	1.6	7
51	Quantum Quench in PT-Symmetric Luttinger Liquid. <i>Physical Review Letters</i> , 2020 , 124, 136802	7.4	6
50	Layer-resolved conductivities in multilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	6
49	Disorder effect on the density of states in Landau quantized graphene. <i>Low Temperature Physics</i> , 2008 , 34, 801-804	0.7	6
48	Impurity scattering and frequency-dependent conductivity in spin density waves. <i>Europhysics Letters</i> , 1999 , 47, 358-363	1.6	6
47	Non-Hermitian Kibble-Zurek Mechanism with Tunable Complexity in Single-Photon Interferometry. <i>PRX Quantum</i> , 2021 , 2,	6.1	6
46	Mean-field quantum phase transition in graphene and in general gapless systems. <i>Physical Review B</i> , 2010 , 82,	3.3	5
45	Impurity scattering in unconventional density waves: non-crossing approximation for arbitrary scattering rate. <i>New Journal of Physics</i> , 2007 , 9, 216-216	2.9	5
44	Quantum-fluctuation-induced time-of-flight correlations of an interacting trapped Bose gas. <i>Physical Review A</i> , 2017 , 95,	2.6	5
43	Dissipation-Induced Luttinger Liquid Correlations in a One-Dimensional Fermi Gas. <i>Physical Review Letters</i> , 2020 , 124, 136401	7.4	4
42	Gauge field entanglement in Kitaev's honeycomb model. <i>Physical Review B</i> , 2018 , 97,	3.3	4
41	Quantum quench in two dimensions using the variational Baeriswyl wave function. <i>Physical Review B</i> , 2016 , 93,	3.3	4
40	Absence of Orthogonality Catastrophe after a Spatially Inhomogeneous Interaction Quench in Luttinger Liquids. <i>Physical Review Letters</i> , 2015 , 115, 096403	7.4	4
39	Unusual spin dynamics in topological insulators. <i>Scientific Reports</i> , 2015 , 5, 14844	4.9	4
38	Escort distribution function of work done and diagonal entropies in quenched Luttinger liquids. <i>Physical Review B</i> , 2014 , 90,	3.3	4
37	Pseudogap enhancement due to magnetic impurities in d-density waves. <i>Physical Review B</i> , 2007 , 75,	3.3	4
36	Collective modes in unconventional density waves. <i>Europhysics Letters</i> , 2003 , 61, 396-402	1.6	4

35	Topologically Protected Correlated End Spin Formation in Carbon Nanotubes. <i>Physical Review Letters</i> , 2020 , 125, 056401	7.4	4
34	Quantum phase transitions from analysis of the polarization amplitude. <i>Physical Review B</i> , 2019 , 99,	3.3	4
33	Dynamics of entanglement after exceptional quantum quench. <i>Physical Review B</i> , 2021 , 103,	3.3	4
32	Unconventional density wave as possible explanation of the Nernst signal in CeCoIn5. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 404-408	1.3	3
31	Out-of-plane optical conductivity in d-wave superconductors. <i>Europhysics Letters</i> , 2001 , 55, 847-853	1.6	3
30	All-electrical spectroscopy of topological phases in semiconductor-superconductor heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	3
29	Quantum Criticality and Formation of a Singular Fermi Liquid in the Attractive SU(N>2) Anderson Model. <i>Physical Review Letters</i> , 2019 , 123, 136803	7.4	2
28	Geometrical quench and dynamical quantum phase transition in the \mathbb{Z}_3 lattice. <i>Physical Review B</i> , 2020 , 101,	3.3	2
27	Quadratic band touching with long-range interactions in and out of equilibrium. <i>Physical Review B</i> , 2016 , 94,	3.3	2
26	Distilling momentum-space entanglement in Luttinger liquids at finite temperature. <i>Physical Review B</i> , 2017 , 96,	3.3	2
25	Luther-Emery liquid in the NMR relaxation rate of carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2159-2163	1.3	2
24	Local density of states and Friedel oscillations around a nonmagnetic impurity in unconventional density waves. <i>Physical Review B</i> , 2007 , 75,	3.3	2
23	New world of Gossamer superconductivity. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3156-3161		2
22	Boundary effect on CDW: Friedel oscillations, STM image. <i>Europhysics Letters</i> , 2005 , 70, 362-368	1.6	2
21	Puzzle of low temperature phase of $\text{Hg}(\text{ET})_2$ salts. <i>Current Applied Physics</i> , 2001 , 1, 313-315	2.6	2
20	Anisotropic Elliott-Lafet theory and application to KC8 potassium intercalated graphite. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2505-2508	1.3	1
19	Luttinger liquid with complex forward scattering: Robustness and Berry phase. <i>Physical Review B</i> , 2016 , 93,	3.3	1
18	Statistics and Dynamics of the Center-of-Mass Coordinate in a Quantum Liquid. <i>Physical Review Letters</i> , 2018 , 121, 056803	7.4	1

17	Testing the Dirac equation against the tight binding model for non-equilibrium graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2627-2630	1.3	1
16	Infrared and electronic Raman response of coexisting d-wave density wave and d-wave superconductivity. <i>European Physical Journal B</i> , 2010 , 77, 65-75	1.2	1
15	Unconventional charge-density waves driven by electron-phonon coupling. <i>Physical Review B</i> , 2006 , 73,	3.3	1
14	Optical conductivity of nodal superconductors. <i>Current Applied Physics</i> , 2006 , 6, 903-908	2.6	1
13	Generic phase diagram of spin relaxation in solids and the Loschmidt echo. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
12	Vaporization Dynamics of a Dissipative Quantum Liquid. <i>Physical Review Letters</i> , 2020 , 125, 266803	7.4	1
11	Entropy in Spin Relaxation, Spintronics, and Magnetic Resonance. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000301	1.3	1
10	Defect production due to time-dependent coupling to environment in the Lindblad equation. <i>Physical Review B</i> , 2021 , 103,	3.3	1
9	Correlations at PT-Symmetric Quantum Critical Point.. <i>Physical Review Letters</i> , 2022 , 128, 146804	7.4	1
8	Kubo Formula for Non-Hermitian Systems and Tachyon Optical Conductivity.. <i>Physical Review Letters</i> , 2022 , 128, 016802	7.4	0
7	Quantum spin Hall insulator interacting with quantum light: Inhomogeneous Dicke model. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2468-2472	1.3	0
6	Optical conductivity and electronic Raman response of cuprate superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S185-S187	1.3	
5	Effect of doping on the pseudogap enhancement due to magnetic impurities in d-density waves. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2338-2342	1.3	
4	Unconventional density waves in organic conductors. <i>Synthetic Metals</i> , 2003 , 139, 317-319	3.6	
3	Magnetothermopower in unconventional density waves. <i>Synthetic Metals</i> , 2004 , 141, 103-107	3.6	
2	Microwave conductivity in spin density waves. <i>Ferroelectrics</i> , 2001 , 249, 73-80	0.6	
1	Small Wavevector Dependent Spin Susceptibility in Weyl Semimetals. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900219	1.3	