

# Balzs Dra

## List of Publications by Year in Descending Order

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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	Kubo Formula for Non-Hermitian Systems and Tachyon Optical Conductivity.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 016802	7.4	0
105	Correlations at PT-Symmetric Quantum Critical Point.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 146804	7.4	1
104	Non-Hermitian Kibble-Zurek Mechanism with Tunable Complexity in Single-Photon Interferometry. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	6
103	Defect production due to time-dependent coupling to environment in the Lindblad equation. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
102	Dynamics of entanglement after exceptional quantum quench. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
101	Geometrical quench and dynamical quantum phase transition in the $\mathbb{Z}_3$ lattice. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
100	Dissipation-Induced Luttinger Liquid Correlations in a One-Dimensional Fermi Gas. <i>Physical Review Letters</i> , <b>2020</b> , 124, 136401	7.4	4
99	Quantum Quench in PT-Symmetric Luttinger Liquid. <i>Physical Review Letters</i> , <b>2020</b> , 124, 136802	7.4	6
98	Generic phase diagram of spin relaxation in solids and the Loschmidt echo. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	1
97	Vaporization Dynamics of a Dissipative Quantum Liquid. <i>Physical Review Letters</i> , <b>2020</b> , 125, 266803	7.4	1
96	Entropy in Spin Relaxation, Spintronics, and Magnetic Resonance. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000301	1.3	1
95	Topologically Protected Correlated End Spin Formation in Carbon Nanotubes. <i>Physical Review Letters</i> , <b>2020</b> , 125, 056401	7.4	4
94	All-electrical spectroscopy of topological phases in semiconductor-superconductor heterostructures. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
93	Quantum Criticality and Formation of a Singular Fermi Liquid in the Attractive $SU(N>2)$ Anderson Model. <i>Physical Review Letters</i> , <b>2019</b> , 123, 136803	7.4	2
92	The Kibble-Zurek mechanism at exceptional points. <i>Nature Communications</i> , <b>2019</b> , 10, 2254	17.4	18
91	Nuclear spin-lattice relaxation time in TaP and the Knight shift of Weyl semimetals. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	14
90	Quantum phase transitions from analysis of the polarization amplitude. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	4

89	Small Wavevector-Dependent Spin Susceptibility in Weyl Semimetals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900219	1.3	
88	Gauge field entanglement in Kitaev's honeycomb model. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
87	Statistics and Dynamics of the Center-of-Mass Coordinate in a Quantum Liquid. <i>Physical Review Letters</i> , <b>2018</b> , 121, 056803	7.4	1
86	Topological and trivial magnetic oscillations in nodal loop semimetals. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	12
85	Detecting Equilibrium and Dynamical Quantum Phase Transitions in Ising Chains via Out-of-Time-Ordered Correlators. <i>Physical Review Letters</i> , <b>2018</b> , 121, 016801	7.4	64
84	Frequency-dependent magneto-optical conductivity in the generalized $\mathbb{Z}_3$ model. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	32
83	Information scrambling at an impurity quantum critical point. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	9
82	Distilling momentum-space entanglement in Luttinger liquids at finite temperature. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	2
81	Full counting statistics of time-of-flight images. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	22
80	Out-of-Time-Ordered Density Correlators in Luttinger Liquids. <i>Physical Review Letters</i> , <b>2017</b> , 119, 026802	7.4	50
79	Intuitive approach to the unified theory of spin relaxation. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	8
78	Quantum-fluctuation-induced time-of-flight correlations of an interacting trapped Bose gas. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	5
77	Anisotropic Elliott-Lifshitz theory and application to KC8 potassium intercalated graphite. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2505-2508	1.3	1
76	Luttinger liquid with complex forward scattering: Robustness and Berry phase. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	1
75	Quantum quench in two dimensions using the variational Baeriswyl wave function. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	4
74	Momentum-Space Entanglement and Loschmidt Echo in Luttinger Liquids after a Quantum Quench. <i>Physical Review Letters</i> , <b>2016</b> , 117, 010603	7.4	7
73	Quadratic band touching with long-range interactions in and out of equilibrium. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	2
72	Floquet topological phases coupled to environments and the induced photocurrent. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	11

71	Quantum spin Hall insulator interacting with quantum light: Inhomogeneous Dicke model. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2468-2472	1.3	0
70	Anomalous hyperfine coupling and nuclear magnetic relaxation in Weyl semimetals. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	19
69	Topological classification of dynamical phase transitions. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	106
68	Absence of Orthogonality Catastrophe after a Spatially Inhomogeneous Interaction Quench in Luttinger Liquids. <i>Physical Review Letters</i> , <b>2015</b> , 115, 096403	7.4	4
67	From Floquet to Dicke: Quantum Spin Hall Insulator Interacting with Quantum Light. <i>Physical Review Letters</i> , <b>2015</b> , 115, 160402	7.4	14
66	Unusual spin dynamics in topological insulators. <i>Scientific Reports</i> , <b>2015</b> , 5, 14844	4.9	4
65	Occurrence of nematic, topological, and Berry phases when a flat and a parabolic band touch. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	33
64	Escort distribution function of work done and diagonal entropies in quenched Luttinger liquids. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	4
63	Disentangling dynamical phase transitions from equilibrium phase transitions. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	109
62	Coupling, merging, and splitting Dirac points by electron-electron interaction. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	13
61	Floquet topological insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 101-108	2.5	285
60	Persistent currents in Dirac fermion rings. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	23
59	Quantum quench in the Luttinger model with finite temperature initial state. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	13
58	Loschmidt echo and the many-body orthogonality catastrophe in a qubit-coupled Luttinger liquid. <i>Physical Review Letters</i> , <b>2013</b> , 111, 046402	7.4	49
57	Linear quantum quench in the Heisenberg XXZ chain: Time-dependent Luttinger-model description of a lattice system. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	22
56	Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	34
55	Optically engineering the topological properties of a spin Hall insulator. <i>Physical Review Letters</i> , <b>2012</b> , 108, 056602	7.4	145
54	Testing the Elliott-Yafet spin-relaxation mechanism in KC8: A model system of biased graphene. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	14

53	Generalized Gibbs ensemble and work statistics of a quenched Luttinger liquid. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	44
52	Layer-resolved conductivities in multilayer graphene. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	6
51	Disorder promotes ferromagnetism: rounding of the quantum phase transition in Sr(1-x)Ca(x)RuO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2012</b> , 108, 185701	7.4	22
50	Testing the Dirac equation against the tight binding model for non-equilibrium graphene. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2627-2630	1.3	1
49	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> , <b>2011</b> , 248, 2688-2691	1.3	16
48	Theory and model analysis of spin relaxation time in graphene [Could it be used for spintronics?]. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2631-2634	1.3	10
47	Lattice generalization of the Dirac equation to general spin and the role of the flat band. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	105
46	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> , <b>2011</b> , 107, 187204	7.4	7
45	Direct observation of a dispersionless impurity band in hydrogenated graphene. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	48
44	Crossover from adiabatic to sudden interaction quench in a Luttinger liquid. <i>Physical Review Letters</i> , <b>2011</b> , 106, 156406	7.4	52
43	Dynamics of the spin Hall effect in topological insulators and graphene. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	21
42	Electron spin dynamics and electron spin resonance in graphene. <i>Europhysics Letters</i> , <b>2010</b> , 92, 17002	1.6	21
41	Tunable band gap in hydrogenated quasi-free-standing graphene. <i>Nano Letters</i> , <b>2010</b> , 10, 3360-6	11.5	278
40	Mean-field quantum phase transition in graphene and in general gapless systems. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	5
39	Infrared and electronic Raman response of coexisting d-wave density wave and d-wave superconductivity. <i>European Physical Journal B</i> , <b>2010</b> , 77, 65-75	1.2	1
38	Optical conductivity and electronic Raman response of cuprate superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S185-S187	1.3	
37	Hyperfine interaction in graphene: The relevance for spintronics. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2935-2940	1.3	7
36	Valley symmetry breaking in bilayer graphene: a test of the minimal model. <i>Physical Review Letters</i> , <b>2009</b> , 103, 266804	7.4	29

35	Electron-spin dynamics in strongly correlated metals. <i>Physical Review Letters</i> , <b>2009</b> , 102, 137001	7.4	11
34	Unusual hyperfine interaction of dirac electrons and NMR spectroscopy in graphene. <i>Physical Review Letters</i> , <b>2009</b> , 102, 197602	7.4	22
33	Generalized Elliott-Yafet theory of electron spin relaxation in metals: origin of the anomalous electron spin lifetime in MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2008</b> , 101, 177003	7.4	12
32	Electron spin resonance signal of Luttinger liquids and single-wall carbon nanotubes. <i>Physical Review Letters</i> , <b>2008</b> , 101, 106408	7.4	32
31	Disorder effect on the density of states in Landau quantized graphene. <i>Low Temperature Physics</i> , <b>2008</b> , 34, 801-804	0.7	6
30	Luther-Emery liquid in the NMR relaxation rate of carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2159-2163	1.3	2
29	Effect of doping on the pseudogap enhancement due to magnetic impurities in d-density waves. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 2338-2342	1.3	
28	Impurity scattering in unconventional density waves: non-crossing approximation for arbitrary scattering rate. <i>New Journal of Physics</i> , <b>2007</b> , 9, 216-216	2.9	5
27	Spin gap and Luttinger liquid description of the NMR relaxation in carbon nanotubes. <i>Physical Review Letters</i> , <b>2007</b> , 99, 166402	7.4	40
26	Pseudogap enhancement due to magnetic impurities in d-density waves. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	4
25	Local density of states and Friedel oscillations around a nonmagnetic impurity in unconventional density waves. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	2
24	Scaling behavior of angular-dependent resistivity in CeCoIn <sub>5</sub> : Possible evidence for d-wave density waves. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	8
23	Unconventional charge-density waves driven by electron-phonon coupling. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	1
22	Spin resonance in the ordered magnetic state of Ni <sub>5</sub> (TeO <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> . <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	15
21	New world of Gossamer superconductivity. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3156-3161		2
20	Gossamer superconductivity, new paradigm?. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 37-45	1.3	9
19	Optical conductivity of nodal superconductors. <i>Current Applied Physics</i> , <b>2006</b> , 6, 903-908	2.6	1
18	Magnetotransport in d -wave density waves. <i>Europhysics Letters</i> , <b>2005</b> , 72, 624-630	1.6	8

17	Unconventional density wave as possible explanation of the Nernst signal in CeCoIn5. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 404-408	1.3	3
16	Boundary effect on CDW: Friedel oscillations, STM image. <i>Europhysics Letters</i> , <b>2005</b> , 70, 362-368	1.6	2
15	Unconventional spin density wave in Bechgaard salt (TMTSF) 2 PF 6. <i>Europhysics Letters</i> , <b>2004</b> , 67, 1024-1030	1.3	13
14	RECENT ADVANCES IN UNCONVENTIONAL DENSITY WAVES. <i>Modern Physics Letters B</i> , <b>2004</b> , 18, 327-344	1.6	25
13	Giant Nernst effect in the pseudogap phase of high Tc superconductors. <i>Current Applied Physics</i> , <b>2004</b> , 4, 693-695	2.6	18
12	Magnetothermopower in unconventional density waves. <i>Synthetic Metals</i> , <b>2004</b> , 141, 103-107	3.6	
11	Collective modes in unconventional density waves. <i>Europhysics Letters</i> , <b>2003</b> , 61, 396-402	1.6	4
10	Optical conductivity of superconducting Sr 2 RuO 4. <i>Europhysics Letters</i> , <b>2003</b> , 62, 426-432	1.6	7
9	Unconventional density waves in organic conductors. <i>Synthetic Metals</i> , <b>2003</b> , 139, 317-319	3.6	
8	Unconventional charge-density wave in the organic conductor alpha-(BEDT-TTF)2KHg(SCN)4. <i>Physical Review Letters</i> , <b>2003</b> , 90, 256402	7.4	38
7	MICROMAGNETISM IN URu2Si2 AND HIGH TEMPERATURE SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , <b>2002</b> , 16, 1667-1671	1.1	29
6	The angular-dependent magnetoresistance in $\alpha$ -(BEDT-TTF) 2 KHg(SCN) 4. <i>Europhysics Letters</i> , <b>2002</b> , 60, 737-742	1.6	17
5	Out-of-plane optical conductivity in d-wave superconductors. <i>Europhysics Letters</i> , <b>2001</b> , 55, 847-853	1.6	3
4	Puzzle of low temperature phase of $\alpha$ (ET)2 salts. <i>Current Applied Physics</i> , <b>2001</b> , 1, 313-315	2.6	2
3	Microwave conductivity in spin density waves. <i>Ferroelectrics</i> , <b>2001</b> , 249, 73-80	0.6	
2	Thermodynamics and optical conductivity of unconventional spin density waves. <i>European Physical Journal B</i> , <b>2001</b> , 22, 167-178	1.2	45
1	Impurity scattering and frequency-dependent conductivity in spin density waves. <i>Europhysics Letters</i> , <b>1999</b> , 47, 358-363	1.6	6