

Balázs Dóra

List of Publications by Year in descending order

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114
papers

2,931
citations

218662

26
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175241

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115
all docs

115
docs citations

115
times ranked

2821
citing authors

#	ARTICLE	IF	CITATIONS
19	Quantum Criticality and Formation of a Singular Fermi Liquid in the Attractive SU(N>2) Anderson Model. Physical Review Letters, 2019, 123, 136803.	7.8	2
20	Collective modes for helical edge states interacting with quantum light. Physical Review B, 2019, 99, .	3.2	0
21	The Kibble-Zurek mechanism at exceptional points. Nature Communications, 2019, 10, 2254.	12.8	40
22	Optimal protocols for quantum quenches of finite duration in the Luttinger model. Physical Review B, 2019, 99, .	3.2	1
23	Nuclear spin-lattice relaxation time in TaP and the Knight shift of Weyl semimetals. Physical Review B, 2019, 99, .	3.2	19
24	Quantum phase transitions from analysis of the polarization amplitude. Physical Review B, 2019, 99, .	3.2	10
25	Small Wavevector-Dependent Spin Susceptibility in Weyl Semimetals. Physica Status Solidi (B): Basic Research, 2019, 256, 1900219.	1.5	0
26	Gauge field entanglement in Kitaev's honeycomb model. Physical Review B, 2018, 97, .	3.2	7
27	Detecting Equilibrium and Dynamical Quantum Phase Transitions in Ising Chains via Out-of-Time-Ordered Correlators. Physical Review Letters, 2018, 121, 016801.	7.8	108
28	Statistics and Dynamics of the Center-of-Mass Coordinate in a Quantum Liquid. Physical Review Letters, 2018, 121, 056803.	7.8	1
29	Topological and trivial magnetic oscillations in nodal loop semimetals. Physical Review B, 2018, 97, .	3.2	23
30	Frequency-dependent magneto-optical conductivity in the generalized \hat{H}_{\pm} model. Physical Review B, 2017, 95, .	3.2	11
31	Information scrambling at an impurity quantum critical point. Physical Review B, 2017, 96, .	3.2	11
32	Distilling momentum-space entanglement in Luttinger liquids at finite temperature. Physical Review B, 2017, 96, .	3.2	4
33	Full counting statistics of time-of-flight images. Physical Review A, 2017, 95, .	2.5	30
34	Out-of-Time-Ordered Density Correlators in Luttinger Liquids. Physical Review Letters, 2017, 119, 026802.	7.8	69
35	Intuitive approach to the unified theory of spin relaxation. Physical Review B, 2017, 96, .	3.2	12
36	Quantum-fluctuation-induced time-of-flight correlations of an interacting trapped Bose gas. Physical Review A, 2017, 95, .	2.5	7

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37	Floquet topological phases coupled to environments and the induced photocurrent. <i>Physical Review B</i> , 2016, 94, .	3.2	14
38	Quantum spin Hall insulator interacting with quantum light: Inhomogeneous Dicke model. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2468-2472.	1.5	1
39	Anomalous hyperfine coupling and nuclear magnetic relaxation in Weyl semimetals. <i>Physical Review B</i> , 2016, 94, .	3.2	24
40	Anisotropic Elliott–Yafet theory and application to KC_8 potassium intercalated graphite. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2505-2508.	1.5	1
41	Luttinger liquid with complex forward scattering: Robustness and Berry phase. <i>Physical Review B</i> , 2016, 93, .	3.2	1
42	Quantum quench in two dimensions using the variational Baeriswyl wave function. <i>Physical Review B</i> , 2016, 93, .	3.2	5
43	Momentum-Space Entanglement and Loschmidt Echo in Luttinger Liquids after a Quantum Quench. <i>Physical Review Letters</i> , 2016, 117, 010603.	7.8	12
44	Quadratic band touching with long-range interactions in and out of equilibrium. <i>Physical Review B</i> , 2016, 94, .	3.2	3
45	Topological classification of dynamical phase transitions. <i>Physical Review B</i> , 2015, 91, .	3.2	152
46	Absence of Orthogonality Catastrophe after a Spatially Inhomogeneous Interaction Quench in Luttinger Liquids. <i>Physical Review Letters</i> , 2015, 115, 096403.	7.8	7
47	From Floquet to Dicke: Quantum Spin Hall Insulator Interacting with Quantum Light. <i>Physical Review Letters</i> , 2015, 115, 160402.	7.8	19
48	Unusual spin dynamics in topological insulators. <i>Scientific Reports</i> , 2015, 5, 14844.	3.3	6
49	Escort distribution function of work done and diagonal entropies in quenched Luttinger liquids. <i>Physical Review B</i> , 2014, 90, .	3.2	4
50	Disentangling dynamical phase transitions from equilibrium phase transitions. <i>Physical Review B</i> , 2014, 89, .	3.2	151
51	Occurrence of nematic, topological, and Berry phases when a flat and a parabolic band touch. <i>Physical Review B</i> , 2014, 90, .	3.2	43
52	Coupling, merging, and splitting Dirac points by electron-electron interaction. <i>Physical Review B</i> , 2013, 88, .	3.2	16
53	Floquet topological insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 101-108.	2.4	377
54	Persistent currents in Dirac fermion rings. <i>Physical Review B</i> , 2013, 88, .	3.2	28

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55	Quantum quench in the Luttinger model with finite temperature initial state. Physical Review B, 2013, 88, .	3.2	17
56	Loschmidt Echo and the Many-Body Orthogonality Catastrophe in a Qubit-Coupled Luttinger Liquid. Physical Review Letters, 2013, 111, 046402.	7.8	60
57	Linear quantum quench in the Heisenberg XXZ chain: Time-dependent Luttinger-model description of a lattice system. Physical Review B, 2013, 87, .	3.2	27
58	Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. Physical Review B, 2013, 88, .	3.2	57
59	Testing the Elliott-Yafet spin-relaxation mechanism in KC8: A model system of biased graphene. Physical Review B, 2012, 85, .	3.2	14
60	Generalized Gibbs ensemble and work statistics of a quenched Luttinger liquid. Physical Review B, 2012, 86, .	3.2	53
61	Layer-resolved conductivities in multilayer graphene. Physical Review B, 2012, 85, .	3.2	6
62	Disorder Promotes Ferromagnetism: Rounding of the Quantum Phase Transition in Sr _{1-x} Ca _x RuO ₃ . Physical Review Letters, 2012, 108, 185701.	7.8	27
63	Optically Engineering the Topological Properties of a Spin Hall Insulator. Physical Review Letters, 2012, 108, 056602.	7.8	178
64	Testing the Dirac equation against the tight binding model for non-equilibrium graphene. Physica Status Solidi (B): Basic Research, 2011, 248, 2627-2630.	1.5	2
65	Density of states deduced from ESR measurements on low-dimensional nanostructures; benchmarks to identify the ESR signals of graphene and SWCNTs. Physica Status Solidi (B): Basic Research, 2011, 248, 2688-2691.	1.5	16
66	Theory and model analysis of spin relaxation time in graphene – Could it be used for spintronics?. Physica Status Solidi (B): Basic Research, 2011, 248, 2631-2634.	1.5	11
67	Lattice generalization of the Dirac equation to general spin and the role of the flat band. Physical Review B, 2011, 84, .	3.2	136
68	Enhanced NMR Relaxation of Tomonaga-Luttinger Liquids and the Magnitude of the Carbon Hyperfine Coupling in Single-Wall Carbon Nanotubes. Physical Review Letters, 2011, 107, 187204.	7.8	9
69	Direct observation of a dispersionless impurity band in hydrogenated graphene. Physical Review B, 2011, 83, .	3.2	49
70	Crossover from Adiabatic to Sudden Interaction Quench in a Luttinger Liquid. Physical Review Letters, 2011, 106, 156406.	7.8	59
71	Dynamics of the spin Hall effect in topological insulators and graphene. Physical Review B, 2011, 83, .	3.2	22
72	Infrared and electronic Raman response of coexisting d-wave density wave and d-wave superconductivity. European Physical Journal B, 2010, 77, 65-75.	1.5	1

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73	Optical conductivity and electronic Raman response of cuprate superconductors. Physica C: Superconductivity and Its Applications, 2010, 470, S185-S187.	1.2	0
74	Hyperfine interaction in graphene: The relevance for spintronics. Physica Status Solidi (B): Basic Research, 2010, 247, 2935-2940.	1.5	12
75	Electron spin dynamics and electron spin resonance in graphene. Europhysics Letters, 2010, 92, 17002.	2.0	24
76	Tunable Band Gap in Hydrogenated Quasi-Free-Standing Graphene. Nano Letters, 2010, 10, 3360-3366.	9.1	297
77	Mean-field quantum phase transition in graphene and in general gapless systems. Physical Review B, 2010, 82, .	3.2	5
78	Valley Symmetry Breaking in Bilayer Graphene: A Test of the Minimal Model. Physical Review Letters, 2009, 103, 266804.	7.8	29
79	Electron-Spin Dynamics in Strongly Correlated Metals. Physical Review Letters, 2009, 102, 137001.	7.8	12
80	Unusual Hyperfine Interaction of Dirac Electrons and NMR Spectroscopy in Graphene. Physical Review Letters, 2009, 102, 197602.	7.8	24
81	Lutherâ€Emery liquid in the NMR relaxation rate of carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2159-2163.	1.5	2
82	Generalized Elliott-Yafet Theory of Electron Spin Relaxation in Metals: Origin of the Anomalous Electron Spin Lifetime in MgB2. Physical Review Letters, 2008, 101, 177003.	7.8	16
83	Electron Spin Resonance Signal of Luttinger Liquids and Single-Wall Carbon Nanotubes. Physical Review Letters, 2008, 101, 106408.	7.8	35
84	Disorder effect on the density of states in Landau quantized graphene. Low Temperature Physics, 2008, 34, 801-804.	0.6	6
85	Impurity scattering in unconventional density waves: non-crossing approximation for arbitrary scattering rate. New Journal of Physics, 2007, 9, 216-216.	2.9	5
86	Spin Gap and Luttinger Liquid Description of the NMR Relaxation in Carbon Nanotubes. Physical Review Letters, 2007, 99, 166402.	7.8	44
87	Pseudogap enhancement due to magnetic impurities in d-density waves. Physical Review B, 2007, 75, .	3.2	4
88	Local density of states and Friedel oscillations around a nonmagnetic impurity in unconventional density waves. Physical Review B, 2007, 75, .	3.2	3
89	Effect of doping on the pseudogap enhancement due to magnetic impurities in d-density waves. Physica Status Solidi (B): Basic Research, 2007, 244, 2338-2342.	1.5	0
90	New world of Gossamer superconductivity. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3156-3161.	0.8	3

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91	Gossamer superconductivity, new paradigm?. Physica Status Solidi (B): Basic Research, 2006, 243, 37-45.	1.5	9
92	Optical conductivity of nodal superconductors. Current Applied Physics, 2006, 6, 903-908.	2.4	1
93	Scaling behavior of angular-dependent resistivity in CeCoIn5: Possible evidence for d-wave density waves. Physical Review B, 2006, 73, .	3.2	9
94	Unconventional charge-density waves driven by electron-phonon coupling. Physical Review B, 2006, 73, .	3.2	4
95	Spin resonance in the ordered magnetic state of Ni5(TeO3)4Cl2. Physical Review B, 2006, 74, .	3.2	15
96	Magnetotransport in d-wave density waves. Europhysics Letters, 2005, 72, 624-630.	2.0	9
97	Unconventional density wave as possible explanation of the Nernst signal in CeCoIn5. Physica Status Solidi (B): Basic Research, 2005, 242, 404-408.	1.5	3
98	Boundary effect on CDW: Friedel oscillations, STM image. Europhysics Letters, 2005, 70, 362-368.	2.0	4
99	Unconventional spin density wave in Bechgaard salt (TMTSF)2PF6. Europhysics Letters, 2004, 67, 1024-1030.	2.0	13
100	RECENT ADVANCES IN UNCONVENTIONAL DENSITY WAVES. Modern Physics Letters B, 2004, 18, 327-344.	1.9	25
101	Giant Nernst effect in the pseudogap phase of high Tc superconductors. Current Applied Physics, 2004, 4, 693-695.	2.4	18
102	Magnetothermopower in unconventional density waves. Synthetic Metals, 2004, 141, 103-107.	3.9	0
103	Unconventional density waves in organic conductors. Synthetic Metals, 2003, 139, 317-319.	3.9	0
104	Unconventional Charge-Density Wave in the Organic Conductor (BEDT-TTF)2KHg(SCN)4. Physical Review Letters, 2003, 90, 256402.	7.8	38
105	Collective modes in unconventional density waves. Europhysics Letters, 2003, 61, 396-402.	2.0	4
106	Optical conductivity of superconducting Sr2RuO4. Europhysics Letters, 2003, 62, 426-432.	2.0	7
107	MICROMAGNETISM IN URu2Si2 AND HIGH TEMPERATURE SUPERCONDUCTORS. International Journal of Modern Physics B, 2002, 16, 1667-1671.	2.0	29
108	The angular-dependent magnetoresistance in (BEDT-TTF)2KHg(SCN)4. Europhysics Letters, 2002, 60, 737-742.	2.0	17

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109	Thermodynamics and optical conductivity of unconventional spin density waves. European Physical Journal B, 2001, 22, 167-178.	1.5	49
110	Out-of-plane optical conductivity in d -wave superconductors. Europhysics Letters, 2001, 55, 847-853.	2.0	3
111	Puzzle of low temperature phase of \hat{I}_{\pm} -(ET) ₂ salts. Current Applied Physics, 2001, 1, 313-315.	2.4	2
112	Microwave conductivity in spin density waves. Ferroelectrics, 2001, 249, 73-80.	0.6	0
113	Impurity scattering and frequency-dependent conductivity in spin density waves. Europhysics Letters, 2000, 50, 823-823.	2.0	0
114	Impurity scattering and frequency-dependent conductivity in spin density waves. Europhysics Letters, 1999, 47, 358-363.	2.0	6