

Miguel A Cazalilla

List of Publications by Year in descending order

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71
papers

4,887
citations

136950

32
h-index

91884

69
g-index

71
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71
docs citations

71
times ranked

3284
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Lifshitz transitions, orbital currents, and interactions in low-dimensional Fermi gases in synthetic gauge fields. <i>New Journal of Physics</i> , 2022, 24, 033043.	2.9	6
2	Enhancement of Spin-Charge Conversion in Dilute Magnetic Alloys by Kondo Screening. <i>Physical Review Letters</i> , 2021, 127, 176801.	7.8	2
3	Suppression and control of prethermalization in multicomponent Fermi gases following a quantum quench. <i>Physical Review A</i> , 2020, 101, .	2.5	4
4	Proposal for Unambiguous Electrical Detection of Spin-Charge Conversion in Lateral Spin Valves. <i>Physical Review Letters</i> , 2020, 124, 236803.	7.8	14
5	Control of spin diffusion and suppression of the Hanle oscillation by the coexistence of spin and valley Hall effects in Dirac materials. <i>Physical Review B</i> , 2019, 99, .	3.2	4
6	Total energy dynamics and asymptotics of the momentum distribution following an interaction quench in a two-component Fermi gas. <i>Physical Review A</i> , 2019, 99, .	2.5	2
7	Theory of spin injection in two-dimensional metals with proximity-induced spin-orbit coupling. <i>Physical Review B</i> , 2019, 100, .	3.2	5
8	Electronic structure theory of strained two-dimensional materials with hexagonal symmetry. <i>Physical Review B</i> , 2018, 98, .	3.2	57
9	Nontrivial interplay of strong disorder and interactions in quantum spin-Hall insulators doped with dilute magnetic impurities. <i>Physical Review B</i> , 2018, 97, .	3.2	19
10	Valley Hall effect and nonlocal transport in strained graphene. <i>2D Materials</i> , 2017, 4, 024007.	4.4	26
11	Haldane model under nonuniform strain. <i>Physical Review B</i> , 2017, 96, .	3.2	12
12	Anomalous Nonlocal Resistance and Spin-Charge Conversion Mechanisms in Two-Dimensional Metals. <i>Physical Review Letters</i> , 2017, 119, 136804.	7.8	15
13	Raise and collapse of pseudo Landau levels in graphene. <i>Physical Review B</i> , 2017, 96, .	3.2	18
14	Spin-charge conversion in disordered two-dimensional electron gases lacking inversion symmetry. <i>Physical Review B</i> , 2017, 96, .	3.2	8
15	Quantum quenches in the Luttinger model and its close relatives. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 064004.	2.3	60
16	Direct coupling between charge current and spin polarization by extrinsic mechanisms in graphene. <i>Physical Review B</i> , 2016, 94, .	3.2	27
17	Graphene electrodynamics in the presence of the extrinsic spin Hall effect. <i>Physical Review B</i> , 2016, 93, .	3.2	5
18	Extrinsic spin Hall effect from anisotropic Rashba spin-orbit coupling in graphene. <i>Physical Review B</i> , 2016, 93, .	3.2	27

#	ARTICLE	IF	CITATIONS
19	Electron-spin to phonon coupling in graphene decorated with heavy adatoms. Physical Review B, 2015, 92, .	3.2	4
20	Disorder effects on helical edge transport in graphene under a strong tilted magnetic field. Physical Review B, 2015, 92, .	3.2	4
21	Quantum Quench and Prethermalization Dynamics in a Two-Dimensional Fermi Gas with Long-Range Interactions. Physical Review Letters, 2014, 113, 210402.	7.8	59
22	Ultracold Fermi gases with emergent SU(2) symmetry. Reports on Progress in Physics, 2014, 77, 124401.	20.1	223
23	Destruction of long-range order by quenching of the hopping range in one dimension. Physical Review A, 2014, 90, .	2.5	9
24	Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. Physical Review Letters, 2014, 112, 066601.	7.8	105
25	Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748.	12.8	179
26	Quantum Spin Hall Effect in Two-Dimensional Crystals of Transition-Metal Dichalcogenides. Physical Review Letters, 2014, 113, 077201.	7.8	139
27	Phase equilibrium of binary mixtures in mixed dimensions. Physical Review A, 2013, 88, .	2.5	3
28	Easy-axis ferromagnetic chain on a metallic surface. Journal of Physics Condensed Matter, 2013, 25, 094008.	1.8	4
29	Entanglement entropy scaling of the XXZ chain. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P10007.	2.3	8
30	Dissipative effects on the superfluid-to-insulator transition in mixed-dimensional optical lattices. Physical Review A, 2013, 88, .	2.5	9
31	Thermalization in systems with bipartite eigenmode entanglement. New Journal of Physics, 2012, 14, 075013.	2.9	17
32	Publisher's Note: Magnetic phases in the one-dimensional Kondo chain on a metallic surface [Phys. Rev. B 86, 035455 (2012)]. Physical Review B, 2012, 86, .	3.2	0
33	Magnetic phases in the one-dimensional Kondo chain on a metallic surface. Physical Review B, 2012, 86, .	3.2	20
34	Tuning the Kosterlitz-Thouless transition to zero temperature in anisotropic boson systems. Physical Review A, 2012, 86, .	2.5	8
35	Thermalization and quantum correlations in exactly solvable models. Physical Review E, 2012, 85, 011133.	2.1	119
36	One dimensional bosons: From condensed matter systems to ultracold gases. Reviews of Modern Physics, 2011, 83, 1405-1466.	45.6	816

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37	Dynamical Theory of Superfluidity in One Dimension. Physical Review Letters, 2011, 107, 275302.	7.8	37
38	A COMPOSITE FERMION APPROACH TO THE ULTRACOLD DILUTE FERMI GAS. International Journal of Modern Physics B, 2011, 25, 329-345.	2.0	5
39	Quantum quench dynamics of the sine-Gordon model in some solvable limits. New Journal of Physics, 2010, 12, 055019.	2.9	110
40	Focus on Dynamics and Thermalization in Isolated Quantum Many-Body Systems. New Journal of Physics, 2010, 12, 055006.	2.9	111
41	Lattice modulation spectroscopy of strongly interacting bosons in disordered and quasiperiodic optical lattices. Physical Review A, 2009, 80, .	2.5	19
42	Quantum simulation of the Hubbard model: The attractive route. Physical Review A, 2009, 79, .	2.5	53
43	Ultracold gases of ytterbium: ferromagnetism and Mott states in an SU(6) Fermi system. New Journal of Physics, 2009, 11, 103033.	2.9	224
44	Quantum quench dynamics of the Luttinger model. Physical Review A, 2009, 80, .	2.5	244
45	Fulde-Ferrell-Larkin-Ovchinnikov pairing in one-dimensional optical lattices. Physical Review B, 2008, 77, .	3.2	105
46	Competition between vortex unbinding and tunneling in an optical lattice. Physical Review A, 2007, 75, .	2.5	14
47	DECONFINEMENT AND COLD ATOMS IN OPTICAL LATTICES. , 2006, , .		0
48	Interacting Bose gases in quasi-one-dimensional optical lattices. New Journal of Physics, 2006, 8, 158-158.	2.9	53
49	Dissipation-Driven Quantum Phase Transitions in a Tomonaga-Luttinger Liquid Electrostatically Coupled to a Metallic Gate. Physical Review Letters, 2006, 97, 076401.	7.8	41
50	Effect of Suddenly Turning on Interactions in the Luttinger Model. Physical Review Letters, 2006, 97, 156403.	7.8	428
51	Energy absorption of a Bose gas in a periodically modulated optical lattice. Physical Review A, 2006, 73, .	2.5	53
52	DECONFINEMENT AND COLD ATOMS IN OPTICAL LATTICES. International Journal of Modern Physics B, 2006, 20, 5169-5178.	2.0	1
53	Edge excitations and topological order in a rotating Bose gas. Physical Review B, 2005, 71, .	3.2	25
54	Non-Fermi-Liquid Behavior in Quasi-One-Dimensional Li _{0.9} Mo ₆ O ₁₇ . Physical Review Letters, 2005, 95, 186402.	7.8	64

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55	Two-Component Fermi Gas on Internal-State-Dependent Optical Lattices. <i>Physical Review Letters</i> , 2005, 95, 226402.	7.8	69
56	Differences between the Tonks regimes in the continuum and on the lattice. <i>Physical Review A</i> , 2004, 70, .	2.5	34
57	Bosonizing one-dimensional cold atomic gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, S1-S47.	1.5	342
58	Deconfinement in a 2D Optical Lattice of Coupled 1D Boson Systems. <i>Physical Review Letters</i> , 2004, 92, 130405.	7.8	48
59	One-dimensional optical lattices and impenetrable bosons. <i>Physical Review A</i> , 2003, 67, .	2.5	61
60	Surface modes of ultracold atomic clouds with a very large number of vortices. <i>Physical Review A</i> , 2003, 67, .	2.5	30
61	Cazalilla and Marston Reply:. <i>Physical Review Letters</i> , 2003, 91, .	7.8	26
62	Instabilities in Binary Mixtures of One-Dimensional Quantum Degenerate Gases. <i>Physical Review Letters</i> , 2003, 91, 150403.	7.8	150
63	Time-Dependent Density-Matrix Renormalization Group: A Systematic Method for the Study of Quantum Many-Body Out-of-Equilibrium Systems. <i>Physical Review Letters</i> , 2002, 88, 256403.	7.8	148
64	Low-energy properties of a one-dimensional system of interacting bosons with boundaries. <i>Europhysics Letters</i> , 2002, 59, 793-799.	2.0	37
65	Lifetimes and mean-free paths of hot electrons in the alkali metals. <i>Physical Review B</i> , 2001, 64, .	3.2	16
66	Anomalous Quasiparticle Lifetime in Graphite: Band Structure Effects. <i>Physical Review Letters</i> , 2001, 87, 246405.	7.8	62
67	Plasmonic excitations in noble metals: The case of Ag. <i>Physical Review B</i> , 2000, 61, 8033-8042.	3.2	61
68	Energy loss of fast protons specularly reflected from metal surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 157, 104-109.	1.4	12
69	Auger neutralization and de-excitation of helium at an aluminium surface: a unified treatment. <i>Surface Science</i> , 1998, 411, L888-L893.	1.9	18
70	Theory of Auger neutralization and deexcitation of slow ions at metal surfaces. <i>Physical Review B</i> , 1998, 58, 13991-14006.	3.2	134
71	Dependence of the stopping power on the surface response function. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 125, 106-109.	1.4	15