Vieri Mastropietro

List of Publications by Year
in descending order

54 papers	803 citations	15 h-index 567281	25 g-index 580821
55 all docs	55 docs citations	55 times ranked	302 citing authors

#	Article	IF	Citations
1	Absence of interaction corrections in the optical conductivity of graphene. Physical Review B, 2011, 83, .	3.2	62
2	Renormalization group for one-dimensional fermions. A review on mathematical results. Physics Reports, 2001, 352, 273-437.	25.6	55
3	Periodic Solutions for Completely Resonant Nonlinear Wave Equations with Dirichlet Boundary Conditions. Communications in Mathematical Physics, 2005, 256, 437-490.	2.2	52
4	The Two-Dimensional Hubbard Model on the Honeycomb Lattice. Communications in Mathematical Physics, 2010, 293, 301-346.	2.2	48
5	Localization of Interacting Fermions in the Aubry-André Model. Physical Review Letters, 2015, 115, 180401.	7.8	47
6	Universality of the Hall Conductivity in Interacting Electron Systems. Communications in Mathematical Physics, 2017, 349, 1107-1161.	2.2	38
7	Steady States and Universal Conductance in a Quenched Luttinger Model. Communications in Mathematical Physics, 2017, 349, 551-582.	2.2	35
8	Height fluctuations in interacting dimers. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2017, 53, .	1.1	28
9	Construction of periodic solutions of nonlinear wave equations with Dirichlet boundary conditions by the Lindstedt series method. Journal Des Mathematiques Pures Et Appliquees, 2004, 83, 1019-1065.	1.6	25
10	Ising Models with Four Spin Interaction at Criticality. Communications in Mathematical Physics, 2004, 244, 595-642.	2.2	24
11	Nonperturbative Adler-Bardeen theorem. Journal of Mathematical Physics, 2007, 48, 022302.	1.1	24
12	Rigorous construction of ground state correlations in graphene: Renormalization of the velocities and Ward identities. Physical Review B, 2009, 79, .	3.2	22
13	Time evolution of the Luttinger model with nonuniform temperature profile. Physical Review B, 2017, 95, .	3.2	22
14	Small Denominators and Anomalous Behaviour in the Incommensurate Hubbard-Holstein Model. Communications in Mathematical Physics, 1999, 201, 81-115.	2.2	17
15	Localization in Interacting Fermionic Chains with Quasi-Random Disorder. Communications in Mathematical Physics, 2017, 351, 283-309.	2.2	17
16	The scaling limit of the energy correlations in non-integrable Ising models. Journal of Mathematical Physics, 2012, 53, .	1.1	15
17	Universality of One-Dimensional Fermi Systems, II. The Luttinger Liquid Structure. Communications in Mathematical Physics, 2014, 330, 217-282.	2.2	14
18	Non-integrable Dimers: Universal Fluctuations of Tilted Height Profiles. Communications in Mathematical Physics, 2020, 377, 1883-1959.	2.2	14

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19	Universality of One-Dimensional Fermi Systems, I. Response Functions and Critical Exponents. Communications in Mathematical Physics, 2014, 330, 153-215.	2.2	13
20	Anomalous Behavior in an Effective Model of Graphene with Coulomb Interactions. Annales Henri Poincare, 2010, 11, 1409-1452.	1.7	11
21	Haldane relation for interacting dimers. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 034002.	2.3	11
22	Gentle introduction to rigorous Renormalization Group: a worked fermionic example. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
23	Localization in the Ground State of an Interacting Quasi-Periodic Fermionic Chain. Communications in Mathematical Physics, 2016, 342, 217-250.	2.2	10
24	Interacting Weyl semimetals on a lattice. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 465003.	2.1	9
25	Dense gaps in the interacting Aubry-André model. Physical Review B, 2016, 93, .	3.2	9
26	Universal Finite Size Corrections and the Central Charge in Non-solvable Ising Models. Communications in Mathematical Physics, 2013, 324, 179-214.	2.2	8
27	Weyl Semimetallic Phase in an Interacting Lattice System. Journal of Statistical Physics, 2014, 157, 830-854.	1.2	8
28	Anomaly Non-renormalization in Interacting Weyl Semimetals. Communications in Mathematical Physics, 2021, 384, 997-1060.	2.2	8
29	Rigorous Proof of Luttinger Liquid Behavior in the 1d Hubbard Model. Journal of Statistical Physics, 2005, 121, 373-432.	1.2	7
30	Non-perturbative aspects of chiral anomalies. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 10349-10365.	2.1	7
31	Conductivity in the Heisenberg chain with next-to-nearest-neighbor interaction. Physical Review E, 2013, 87, 042121.	2.1	7
32	Universal Edge Transport in Interacting Hall Systems. Communications in Mathematical Physics, 2018, 362, 295-359.	2.2	7
33	Quantization of the Interacting Hall Conductivity in the Critical Regime. Journal of Statistical Physics, 2020, 180, 332-365.	1.2	7
34	Renormalization group and Ward identities for infrared QED4. Journal of Mathematical Physics, 2007, 48, .	1.1	6
35	Quantum quench for inhomogeneous states in the nonlocal Luttinger model. Physical Review B, 2015, 91, .	3.2	6
36	Canonical Drude Weight for Non-integrable Quantum Spin Chains. Journal of Statistical Physics, 2018, 172, 379-397.	1.2	6

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37	Persistence of gaps in the interacting anisotropic Hofstadter model. Physical Review B, 2019, 99, .	3.2	6
38	Emergent Adler-Bardeen theorem. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
39	Anomaly cancellation condition in an effective nonperturbative electroweak theory. Physical Review D, 2021, 103, .	4.7	6
40	Renormalization Group and Asymptotic Spin-Charge Separation for Chiral Luttinger Liquids. Journal of Statistical Physics, 2008, 131, 79-116.	1.2	5
41	Height fluctuations in non-integrable classical dimers. Europhysics Letters, 2015, 109, 60004.	2.0	5
42	Stability of Weyl semimetals with quasiperiodic disorder. Physical Review B, 2020, 102, .	3.2	5
43	Coupled identical localized fermionic chains with quasirandom disorder. Physical Review B, 2017, 95, .	3.2	4
44	Nonperturbative renormalization of the lattice Sommerfield vector model. Physical Review D, 2022, 105, .	4.7	3
45	ANOMALOUS SUPERCONDUCTIVITY IN COUPLED LUTTINGER LIQUIDS. Reviews in Mathematical Physics, 2000, 12, 1627-1654.	1.7	2
46	The absence of logarithmic divergences in the spin and charge density correlations of the 1d Hubbard model. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 3347-3368.	2.1	2
47	Ward identities and chiral anomalies for coupled fermionic chains. Journal of Mathematical Physics, 2013, 54, 121901.	1.1	2
48	Interacting spinning fermions with quasiâ€random disorder. Annalen Der Physik, 2017, 529, 1600270.	2.4	2
49	Title is missing!. Regular and Chaotic Dynamics, 2001, 6, 355.	0.8	2
50	CORRELATION FUNCTIONS IN QUANTUM SPIN CHAINS AND VERTEX MODELS. International Journal of Modern Physics A, 2001, 16, 1875-1887.	1.5	1
51	LUTTINGER MODEL AND LUTTINGER LIQUIDS. International Journal of Modern Physics B, 2012, 26, 1244006.	2.0	1
52	Quantum Phase Transition in an Interacting Fermionic Chain. Annales Henri Poincare, 2016, 17, 459-495.	1.7	1
53	Rigorous analysis of the Tomonaga model by means of Ward identities and the renormalization group. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, L04001.	2.3	0
54	Vanishing of Drude Weight in Interacting Fermions on $${\mathbb Z}^d$$ with Quasi-Periodic Disorder. Journal of Statistical Physics, 2022, 186, 1.	1.2	0