Eldad Bettelheim

List of Publications by Year
in descending order

28 papers	587 citations	567281 15 h-index	610901 24 g-index
28 all docs	28 docs citations	28 times ranked	351 citing authors

#	Article	IF	Citations
1	Nonlinear Quantum Shock Waves in Fractional Quantum Hall Edge States. Physical Review Letters, 2006, 97, 246401.	7.8	72
2	Integrable hydrodynamics of Calogeroâ€"Sutherland model: bidirectional Benjaminâ€"Ono equation. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 135201.	2.1	63
3	Viscous Fingering and the Shape of an Electronic Droplet in the Quantum Hall Regime. Physical Review Letters, 2002, 88, 236801.	7.8	52
4	Orthogonality Catastrophe and Shock Waves in a Nonequilibrium Fermi Gas. Physical Review Letters, 2006, 97, 246402.	7.8	47
5	Quantum Ripples Over a Semiclassical Shock. Physical Review Letters, 2012, 109, 260602.	7.8	44
6	Critical curves in conformally invariant statistical systems. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 2165-2195.	2.1	33
7	Universal Fermi distribution of semiclassical nonequilibrium Fermi states. Physical Review B, 2011, 84, .	3.2	31
8	Nonlinear dynamics of quantum systems and soliton theory. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F193-F207.	2.1	29
9	Stochastic Loewner Evolution for Conformal Field Theories with Lie Group Symmetries. Physical Review Letters, 2005, 95, 251601.	7.8	27
10	Bubble break-off in Heleâ€"Shaw flowsâ€"singularities and integrable structures. Physica D: Nonlinear Phenomena, 2006, 219, 22-34.	2.8	26
11	Inverse Scattering Method Solves the Problem of Full Statistics of Nonstationary Heat Transfer in the Kipnis-Marchioro-Presutti Model. Physical Review Letters, 2022, 128, 130602.	7.8	26
12	Quantum hydrodynamics and nonlinear differential equations for degenerate Fermi gas. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 392003.	2.1	24
13	Harmonic Measure of Critical Curves. Physical Review Letters, 2005, 95, 170602.	7.8	18
14	â€œQuantum phase transitionsâ€•in classical nonequilibrium processes. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 600-608.	2.7	17
15	Singularities of the Hele-Shaw Flow and Shock Waves in Dispersive Media. Physical Review Letters, 2005, 95, 244504.	7.8	15
16	Semi-classical analysis of the inner product of Bethe states. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 245401.	2.1	14
17	Allelic and Isotypic Light Chain Inclusion in Peripheral B Cells from Anti-DNA Antibody Transgenic C57BL/6 and BALB/c Mice. Journal of Immunology, 2008, 180, 3708-3718.	0.8	12
18	The Whitham approach to the c â†' 0 limit of the Liebâ€"Liniger model and generalized hydrodynamics. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 205204.	2.1	11

#	Article	IF	Citations
19	Gradient Catastrophe and Fermi-Edge Resonances in Fermi Gas. Physical Review Letters, 2011, 106, 166804.	7.8	6
20	Towards a non-equilibrium Bethe ansatz for the Kondo model. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 165003.	2.1	6
21	Fermi edge resonances in non-equilibrium states of Fermi gases. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 282001.	2.1	4
22	Derivation of one-particle semiclassical kinetic theory in the presence of non-Abelian Berry curvature. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 415303.	2.1	4
23	Tip-splitting evolution in the idealized Saffman–Taylor problem. Journal of Physics A, 2006, 39, 1759-1765.	1.6	2
24	Integrable quantum hydrodynamics in two-dimensional phase space. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 505001.	2.1	2
25	Viscous fingering in the presence of weak disorder. Mathematical Modelling of Natural Phenomena, 2020, 15, 2.	2.4	1
26	Entanglement spectrum in general free fermionic systems. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 135001.	2.1	1
27	Exact matrix elements of the field operator in the thermodynamic limit of the Lieb–Liniger model. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 385002.	2.1	0
28	MICROSCOPIC SIMULATION OF REACTION–DIFFUSION PROCESSES AND APPLICATIONS OF POPULATION BIOLOGY AND PRODUCT MARKETING. , 2000, , 311-339.		0