

Mahito Kohmoto

List of Publications by Year in descending order

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times ranked

2736
citing authors

#	ARTICLE	IF	CITATIONS
1	Localization Problem in One Dimension: Mapping and Escape. Physical Review Letters, 1983, 50, 1870-1872.	2.9	1,018
2	Topological invariant and the quantization of the Hall conductance. Annals of Physics, 1985, 160, 343-354.	1.0	883
3	Critical wave functions and a Cantor-set spectrum of a one-dimensional quasicrystal model. Physical Review B, 1987, 35, 1020-1033.	1.1	662
4	Localization of optics: Quasiperiodic media. Physical Review Letters, 1987, 58, 2436-2438.	2.9	503
5	Edge states and topological phases in non-Hermitian systems. Physical Review B, 2011, 84, .	1.1	381
6	Quasiperiodic lattice: Electronic properties, phonon properties, and diffusion. Physical Review B, 1986, 34, 563-566.	1.1	301
7	Metal-Insulator Transition and Scaling for Incommensurate Systems. Physical Review Letters, 1983, 51, 1198-1201.	2.9	237
8	Zero modes of tight-binding electrons on the honeycomb lattice. Physical Review B, 2006, 74, .	1.1	215
9	ELECTRONIC SPECTRAL AND WAVEFUNCTION PROPERTIES OF ONE-DIMENSIONAL QUASIPERIODIC SYSTEMS: A SCALING APPROACH. International Journal of Modern Physics B, 1992, 06, 281-320.	1.0	203
10	Electronic States on a Penrose Lattice. Physical Review Letters, 1986, 56, 2740-2743.	2.9	183
11	Hamiltonian studies of the $d=2$ Ashkin-Teller model. Physical Review B, 1981, 24, 5229-5241.	1.1	182
12	Zero modes and the quantized Hall conductance of the two-dimensional lattice in a magnetic field. Physical Review B, 1989, 39, 11943-11949.	1.1	166
13	Global scaling properties of the spectrum for a quasiperiodic Schrödinger equation. Physical Review B, 1986, 34, 2041-2044.	1.1	165
14	Diophantine equation for the three-dimensional quantum Hall effect. Physical Review B, 1992, 45, 13488-13493.	1.1	123
15	Entropy function for multifractals. Physical Review A, 1988, 37, 1345-1350.	1.0	115
16	Electronic and vibrational modes on a Penrose lattice: Localized states and band structure. Physical Review B, 1986, 34, 3849-3853.	1.1	108
17	Scaling analysis of quasiperiodic systems: Generalized Harper model. Physical Review B, 1989, 40, 8225-8234.	1.1	107
18	Strictly localized states on a two-dimensional Penrose lattice. Physical Review B, 1988, 38, 1621-1626.	1.1	98

#	ARTICLE	IF	CITATIONS
19	Zero modes and edge states of the honeycomb lattice. <i>Physical Review B</i> , 2007, 76, .	1.1	94
20	Resistance of a one-dimensional quasicrystal: Power-law growth. <i>Physical Review B</i> , 1987, 36, 5877-5886.	1.1	86
21	Mechanism of Spin-Triplet Superconductivity in Sr ₂ RuO ₄ . <i>Journal of the Physical Society of Japan</i> , 2000, 69, 3505-3508.	0.7	81
22	Hidden Z ₂ —Z ₂ symmetry breaking and the Haldane phase in the S=1/2 quantum spin chain with bond alternation. <i>Physical Review B</i> , 1992, 46, 3486-3495.	1.1	73
23	Localization problem and mapping of one-dimensional wave equations in random and quasiperiodic media. <i>Physical Review B</i> , 1986, 34, 5043-5047.	1.1	71
24	New localization in a quasiperiodic system. <i>Physical Review Letters</i> , 1989, 62, 2714-2717.	2.9	63
25	Quantum Hall effect and the topological number in graphene. <i>Physical Review B</i> , 2006, 74, .	1.1	59
26	Exactly Solvable Model of Correlated Lattice Electrons in Any Dimensions. <i>Journal of the Physical Society of Japan</i> , 1992, 61, 2056-2069.	0.7	51
27	Localized states and self-similar states of electrons on a two-dimensional Penrose lattice. <i>Physical Review B</i> , 1988, 37, 2797-2804.	1.1	49
28	Explicit Solutions of the Bethe Ansatz Equations for Bloch Electrons in a Magnetic Field. <i>Physical Review Letters</i> , 1994, 73, 1134-1137.	2.9	41
29	Localization problem in a quasiperiodic system with spin-orbit interaction. <i>Physical Review B</i> , 2008, 77, .	1.1	31
30	Quantum group, Bethe ansatz equations, and Bloch wave functions in magnetic fields. <i>Physical Review B</i> , 1996, 53, 9697-9712.	1.1	27
31	Quantized Hall effect in 3D periodic systems. <i>Physica B: Condensed Matter</i> , 1993, 184, 30-33.	1.3	24
32	Hidden massive Dirac fermions in effective field theory for integral quantum Hall transitions. <i>Physical Review B</i> , 1996, 54, 4898-4906.	1.1	22
33	Periodic Landau gauge and quantum Hall effect in twisted bilayer graphene. <i>Physical Review B</i> , 2013, 88, .	1.1	22
34	Wave propagation through Cantor-set media: Chaos, scaling, and fractal structures. <i>Physical Review E</i> , 2009, 79, 056226.	0.8	21
35	Zero modes, energy gap, and edge states of anisotropic honeycomb lattice in a magnetic field. <i>Physical Review B</i> , 2009, 80, .	1.1	21
36	Peierls stabilization of magnetic-flux states of two-dimensional lattice electrons. <i>Physical Review B</i> , 1990, 41, 9527-9529.	1.1	20

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37	Berry's Phase of Bloch Electrons in Electromagnetic Fields. Journal of the Physical Society of Japan, 1993, 62, 659-663.	0.7	16
38	Hall conductance, topological quantum phase transition, and the Diophantine equation on the honeycomb lattice. Physical Review B, 2008, 78, .	1.1	14
39	Flux and the Quantized Hall Conductance in Two-Dimensional Periodic Systems. Journal of the Physical Society of Japan, 1992, 61, 2645-2648.	0.7	12
40	Superconductivity from an Insulator. Journal of the Physical Society of Japan, 1990, 59, 1541-1544.	0.7	11
41	Electric-field-induced penetration of edge states at the interface between monolayer and bilayer graphene. Physical Review B, 2012, 85, .	1.1	11
42	MAGNETISM, PHONONS AND ANISOTROPY OF HIGH TEMPERATURE CUPRATES SUPERCONDUCTORS. International Journal of Modern Physics B, 2001, 15, 511-526.	1.0	10
43	Anisotropic superconductivity mediated by phonons in layered compounds with weak screening effects. Physical Review B, 2002, 65, .	1.1	10
44	Polarization of Bloch electrons and Berry phase in the presence of electromagnetic fields. Physical Review B, 2002, 66, .	1.1	9
45	Phase diagram of the Ashkin-Teller quantum spin chain. Physical Review B, 1994, 50, 559-562.	1.1	8
46	Critical properties of Harper's equation on a triangular lattice. Physical Review B, 2006, 73, .	1.1	8
47	Berry Phase and Quantized Hall Effect in Three-Dimension. Journal of the Physical Society of Japan, 2002, 71, 1403-1404.	0.7	7
48	Dynamical system related to quasiperiodic Schrödinger equations in one dimension. Journal of Statistical Physics, 1992, 66, 791-796.	0.5	6
49	Three-dimensional superconducting networks in a magnetic field. Physical Review B, 1993, 48, 1119-1123.	1.1	6
50	Integer-Quantized Hall Effect in Spin-Wave Phases of Two-Dimensional Conductors. Journal of the Physical Society of Japan, 1990, 59, 1537-1540.	0.7	5
51	Energy Spectrum and the Critical Wavefunctions of the Quasiperiodic Harper Equation "the Silver Mean Case". Journal of the Physical Society of Japan, 1994, 63, 2261-2268.	0.7	5
52	Single-particle states on a sphere with a magnetic field and disorder. Physical Review B, 1995, 51, 13419-13431.	1.1	5
53	Conductivity of 2D Lattice Electrons in an Incommensurate Magnetic Field. Journal of the Physical Society of Japan, 1996, 65, 529-537.	0.7	5
54	Exact ground-state correlation functions of one-dimensional strongly correlated electron models with resonating-valence-bond ground state. Journal of Statistical Physics, 1996, 84, 1133-1208.	0.5	5

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55	The Spectral Shift Function and the Friedel Sum Rule. <i>Annales Henri Poincare</i> , 2013, 14, 1413-1424.	0.8	5
56	Quantized Hall effect and geometric localization of electrons on lattices. <i>Physical Review B</i> , 1987, 35, 6017-6023.	1.1	4
57	Quantum-Wire Networks and the Quantized Hall Effect. <i>Journal of the Physical Society of Japan</i> , 1993, 62, 4001-4008.	0.7	4
58	Pseudogap due to Antiferromagnetic Fluctuations and the Phase Diagram of High-Temperature Oxide Superconductors. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 1598-1601.	0.7	4
59	Berry phase and spin quantum Hall effect in the vortex state of superfluid ³ He in two dimensions. <i>Physical Review B</i> , 2002, 66, .	1.1	4
60	Critical level statistics of the Fibonacci model. <i>Physical Review B</i> , 2005, 71, .	1.1	4
61	Spin Depolarization on a Linear Chain with Quasiperiodic Larmor Frequencies. <i>Journal of the Physical Society of Japan</i> , 1990, 59, 826-828.	0.7	3
62	Line of continuously varying criticality in the Ashkin-Teller quantum chain. <i>Physical Review B</i> , 1995, 52, 1138-1143.	1.1	3
63	Universal distribution of spectral-flow gaps in the Rashba model with disorder. <i>Physical Review B</i> , 2007, 75, .	1.1	3
64	Quantized spin Hall effect in H and other p-wave paired Fermi systems. <i>Physical Review B</i> , 2008, 77, .	1.1	3
65	HIGH RESISTIVITY IN THE QUASICRYSTALS. <i>Modern Physics Letters B</i> , 1993, 07, 183-187.	1.0	2
66	Quantum Hall effect in the field-induced spin density wave states. <i>Journal of Superconductivity and Novel Magnetism</i> , 1994, 7, 757-762.	0.5	2
67	ENHANCEMENT OF SUPERCONDUCTIVE CRITICAL TEMPERATURES IN ALMOST EMPTY OR FULL BANDS IN TWO DIMENSIONS: POSSIBLE RELEVANCE TO HfNiCl_2 , C_{60} AND MgB_2 . <i>Modern Physics Letters B</i> , 2001, 15, 359-368.	1.0	2
68	ADIABATIC PROCESS AND CHERN NUMBERS. <i>Modern Physics Letters B</i> , 2008, 22, 303-311.	1.0	2
69	Quasiperiodic Modulated-Spring Model. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 3915-3919.	0.7	2
70	Quasi-Bound States of Two Magnons in the Spin- $\frac{1}{2}$ XXZ Chain. <i>Journal of Statistical Physics</i> , 1997, 88, 745-780.	0.5	1
71	GAUGE FIELDS, QUANTIZED FLUXES AND MONOPOLE CONFINEMENT OF THE HONEYCOMB LATTICE. <i>International Journal of Modern Physics B</i> , 2009, 23, 3113-3130.	1.0	1
72	Singularities in the Thermodynamic Formalism of Multifractals. <i>Journal of the Physical Society of Japan</i> , 1991, 60, 2876-2880.	0.7	0