Yigal Meir

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Landauer formula for the current through an interacting electron region. Physical Review Letters, 1992, 68, 2512-2515.	2.9	2,569
2	Time-dependent transport in interacting and noninteracting resonant-tunneling systems. Physical Review B, 1994, 50, 5528-5544.	1.1	1,695
3	Low-temperature transport through a quantum dot: The Anderson model out of equilibrium. Physical Review Letters, 1993, 70, 2601-2604.	2.9	857
4	Transport through a strongly interacting electron system: Theory of periodic conductance oscillations. Physical Review Letters, 1991, 66, 3048-3051.	2.9	639
5	Anderson model out of equilibrium: Noncrossing-approximation approach to transport through a quantum dot. Physical Review B, 1994, 49, 11040-11052.	1.1	492
6	van der Waals Energies in Density Functional Theory. Physical Review Letters, 1998, 80, 4153-4156.	2.9	474
7	Transport spectroscopy of a Coulomb island in the quantum Hall regime. Physical Review Letters, 1991, 66, 1926-1929.	2.9	367
8	Time-dependent transport through a mesoscopic structure. Physical Review B, 1993, 48, 8487-8490.	1.1	313
9	Nature of the superconductor–insulator transition in disordered superconductors. Nature, 2007, 449, 876-880.	13.7	301
10	Dynamic structures in Escherichia coli: Spontaneous formation of MinE rings and MinD polar zones. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12724-12728.	3.3	258
11	Geometric Implementation of Hypercubic Lattices with Noninteger Dimensionality by Use of Low Lacunarity Fractal Lattices. Physical Review Letters, 1983, 50, 145-148.	2.9	227
12	Kondo Model for the "0.7 Anomaly―in Transport through a Quantum Point Contact. Physical Review Letters, 2002, 89, 196802.	2.9	212
13	Effects of quantum levels on transport through a Coulomb island. Physical Review B, 1993, 47, 10020-10023.	1.1	211
14	Electronic Correlations in Transport through Coupled Quantum Dots. Physical Review Letters, 1999, 82, 3508-3511.	2.9	198
15	Chemosensing in Escherichia coli: Two regimes of two-state receptors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1786-1791.	3.3	181
16	Universal effects of spin-orbit scattering in mesoscopic systems. Physical Review Letters, 1989, 63, 798-800.	2.9	175
17	Dephasing and the Orthogonality Catastrophe in Tunneling through a Quantum Dot: The "Which Path?―Interferometer. Physical Review Letters, 1997, 79, 3740-3743.	2.9	155
18	Percolation-Type Description of the Metal-Insulator Transition in Two Dimensions. Physical Review Letters, 1999, 83, 3506-3509.	2.9	150

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19	Magnetic impurity formation in quantum point contacts. Nature, 2006, 442, 900-903.	13.7	147
20	How Long Does It Take for the Kondo Effect to Develop?. Physical Review Letters, 1999, 83, 808-811.	2.9	129
21	Local Moment Formation in Quantum Point Contacts. Physical Review Letters, 2003, 90, 026804.	2.9	123
22	Series study of percolation moments in general dimension. Physical Review B, 1990, 41, 9183-9206.	1.1	111
23	Many-body coherence effects in conduction through a quantum dot in the fractional quantum Hall regime. Physical Review B, 1992, 46, 4681-4692.	1.1	105
24	Condensation and localization of the partitioning protein ParB on the bacterial chromosome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8809-8814.	3.3	96
25	Verticalization of bacterial biofilms. Nature Physics, 2018, 14, 954-960.	6.5	92
26	Resistance fluctuations in randomly diluted networks. Physical Review B, 1987, 35, 3524-3535.	1.1	79
27	Probing the Kondo Density of States in a Three-Terminal Quantum Ring. Physical Review Letters, 2005, 95, 126603.	2.9	79
28	Shot Noise through a Quantum Dot in the Kondo Regime. Physical Review Letters, 2002, 88, 116802.	2.9	71
29	Thermal Robustness of Signaling in Bacterial Chemotaxis. Cell, 2011, 145, 312-321.	13.5	70
30	Self-avoiding walks on diluted networks. Physical Review Letters, 1989, 63, 2819-2822.	2.9	66
31	Odd and even Kondo effects from emergent localization in quantum point contacts. Nature, 2013, 501, 79-83.	13.7	65
32	Composite edge states in the ν=2/3 fractional quantum Hall regime. Physical Review Letters, 1994, 72, 2624-2627.	2.9	64
33	Low-concentration series in general dimension. Journal of Statistical Physics, 1990, 58, 511-538.	0.5	63
34	Coulomb interactions and energy-level spectrum of a small electron gas. Physica B: Condensed Matter, 1993, 189, 70-79.	1.3	62
35	Variable sizes of <i>Escherichia coli</i> chemoreceptor signaling teams. Molecular Systems Biology, 2008, 4, 211.	3.2	62
36	Edge Reconstruction in the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>î½</mml:mi><mml:mo mathvariant="bold">=<mml:mn>2</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn>Quantum Hall State. Physical Review Letters, 2013, 111, 246803.</mml:mo </mml:math>	math>Frac	tional

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37	Kondo physics in the single-electron transistor with ac driving. Physical Review B, 2000, 61, 2146-2150.	1.1	61
38	Series analysis of randomly diluted nonlinear resistor networks. Physical Review B, 1986, 34, 3424-3428.	1.1	57
39	Series expansions for the Ising spin glass in general dimension. Physical Review B, 1991, 43, 11249-11273.	1.1	54
40	Universal Crossover between Efros-Shklovskii and Mott Variable-Range-Hopping Regimes. Physical Review Letters, 1996, 77, 5265-5267.	2.9	54
41	Delocalization Transition in Two-Dimensional Quantum Percolation. Europhysics Letters, 1989, 10, 275-278.	0.7	53
42	Spontaneous Breakdown of Topological Protection in Two Dimensions. Physical Review Letters, 2017, 118, 046801.	2.9	52
43	Decoding the physical principles of two-component biomolecular phase separation. ELife, 2021, 10, .	2.8	52
44	Microbial consortia at steady supply. ELife, 2017, 6, .	2.8	52
45	Theory of the magnetoresistance of disordered superconducting films. Physical Review B, 2006, 73, .	1.1	50
46	Concerted 2-5A-Mediated mRNA Decay and Transcription Reprogram Protein Synthesis in the dsRNA Response. Molecular Cell, 2019, 75, 1218-1228.e6.	4.5	50
47	Mechanical Frustration of Phase Separation in the Cell Nucleus by Chromatin. Physical Review Letters, 2021, 126, 258102.	2.9	50
48	Spin-orbit scattering for localized electrons: Absence of negative magnetoconductance. Physical Review Letters, 1991, 66, 1517-1520.	2.9	47
49	Mechanism of bidirectional thermotaxis in Escherichia coli. ELife, 2017, 6, .	2.8	47
50	Magnetic-field and spin-orbit interaction in restricted geometries: Solvable models. Physical Review B, 1990, 42, 8351-8360.	1.1	46
51	Dynamics of Cooperativity in Chemical Sensing among Cell-Surface Receptors. Physical Review Letters, 2011, 107, 178101.	2.9	45
52	Conductance through a quantum dot in the fractional quantum Hall regime. Physical Review B, 1992, 45, 9489-9492.	1.1	42
53	Rigidity enhances a magic-number effect in polymer phase separation. Nature Communications, 2020, 11, 1561.	5.8	42
54	Non-Local Interaction via Diffusible Resource Prevents Coexistence of Cooperators and Cheaters in a Lattice Model. PLoS ONE, 2013, 8, e63304.	1.1	37

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55	How to measure the entropy of a mesoscopic system via thermoelectric transport. Nature Communications, 2019, 10, 5801.	5.8	37
56	Spin-orbit scattering and the Kondo effect. Physical Review B, 1994, 50, 4947-4950.	1.1	36
57	Nutrient levels and trade-offs control diversity in a serial dilution ecosystem. ELife, 2020, 9, .	2.8	36
58	Chemical Sensing by Nonequilibrium Cooperative Receptors. Physical Review Letters, 2013, 110, 248102.	2.9	35
59	Precision and Kinetics of Adaptation in Bacterial Chemotaxis. Biophysical Journal, 2010, 99, 2766-2774.	0.2	34
60	Comment on "2-Channel Kondo Scaling in Conductance Signals from 2-Level Tunneling Systems― Physical Review Letters, 1995, 75, 769-769.	2.9	33
61	Two-species percolation and scaling theory of the metal-insulator transition in two dimensions. Physical Review B, 2000, 61, 16470-16476.	1.1	30
62	Diffusion on percolating clusters. Physical Review B, 1987, 36, 8752-8764.	1.1	27
63	Unifying Model for Several Classes of Two-Dimensional Phase Transition. Physical Review Letters, 2005, 94, 156406.	2.9	27
64	Kondo effect and spin–orbit coupling in graphene quantum dots. Nature Communications, 2021, 12, 6004.	5.8	27
65	Quantum Percolation in Magnetic Fields. Physical Review Letters, 1986, 56, 976-979.	2.9	25
66	Effects of spin-orbit scattering in mesoscopic rings: Canonical- versus grand-canonical-ensemble averaging. Physical Review B, 1992, 45, 11890-11895.	1.1	25
67	Fractional Entropy of Multichannel Kondo Systems from Conductance-Charge Relations. Physical Review Letters, 2022, 128, 146803.	2.9	24
68	Band of Critical States in Anderson Localization in a Strong Magnetic Field with Random Spin-Orbit Scattering. Physical Review Letters, 2015, 114, 096803.	2.9	23
69	Symmetric inseparability and number entanglement in charge-conserving mixed states. Physical Review A, 2022, 105, .	1.0	23
70	Series study of random animals in general dimensions. Physical Review B, 1988, 38, 4941-4954.	1.1	22
71	Universal spin-induced magnetoresistance in the variable-range hopping regime. Europhysics Letters, 1996, 33, 471-476.	0.7	22
72	Evidence for localization and 0.7 anomaly in hole quantum point contacts. Europhysics Letters, 2010, 91, 67010.	0.7	22

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73	Island formation in disordered superconducting thin films at finite magnetic fields. Physical Review B, 2008, 78, .	1.1	21
74	Random matrix theory of transition strengths and universal magnetoconductance in the strongly localized regime. Physical Review Letters, 1993, 70, 1988-1991.	2.9	19
75	Recursive enumeration of clusters in general dimension on hypercubic lattices. Physical Review A, 1987, 36, 1840-1848.	1.0	18
76	Thermal phase transition in two-dimensional disordered superconductors. Europhysics Letters, 2010, 91, 47003.	0.7	18
77	An experimental test of the geodesic rule proposition for the noncyclic geometric phase. Science Advances, 2020, 6, eaay8345.	4.7	17
78	Dynamic Structure Factor of a Deterministic Fractal. Europhysics Letters, 1988, 7, 249-253.	0.7	16
79	Auger-spectroscopy in quantum Hall edge channels and the missing energy problem. Nature Communications, 2019, 10, 3915.	5.8	16
80	Nonmonotonic thermoelectric currents and energy harvesting in interacting double quantum dots. Physical Review B, 2019, 99, .	1.1	16
81	Quantum Hall criticality, superconductor-insulator transition, and quantum percolation. Physical Review B, 2005, 71, .	1.1	14
82	Suppression of Shot Noise in Quantum Point Contacts in the "0.7 Regime― Physical Review Letters, 2006, 97, 186801.	2.9	14
83	Absence of localization in disordered two-dimensional electron gas at weak magnetic field and strong spin-orbit coupling. Scientific Reports, 2016, 6, 33304.	1.6	14
84	The theory of the â€~0.7 anomaly' in quantum point contacts. Journal of Physics Condensed Matter, 2008, 20, 164208.	0.7	13
85	Breaking of phase symmetry in nonequilibrium Aharonov-Bohm oscillations through a quantum dot. Physical Review B, 2009, 80, .	1.1	13
86	Proposed Measurement of Spatial Correlations at the Berezinski-Kosterlitz-Thouless Transition of Superconducting Thin Films. Physical Review Letters, 2013, 111, 187002.	2.9	13
87	Abrupt disappearance and re-emergence of the SU(4) and SU(2) Kondo effects due to population inversion. Physical Review B, 2017, 96, .	1.1	13
88	Series analysis of randomly diluted nonlinear networks with negative nonlinearity exponent. Physical Review B, 1987, 36, 3950-3952.	1.1	12
89	Averaging of multifractals. Physical Review A, 1988, 37, 596-600.	1.0	12
90	Directed percolation in 3+1 dimensions. Physical Review B, 1988, 37, 7529-7533.	1.1	12

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91	Dilute random-field Ising models and uniform-field antiferromagnets. Physical Review B, 1985, 32, 3203-3213.	1.1	11
92	Quantum Hall effect in three-dimensional layered systems. Physical Review B, 1998, 58, R1762-R1765.	1.1	11
93	From the zero-field metal-insulator transition in two dimensions to the quantum Hall transition: A percolation-effective-medium theory. Physical Review B, 2001, 63, .	1.1	11
94	Charge Rearrangement and Screening in a Quantum Point Contact. Physical Review Letters, 2007, 98, 196805.	2.9	11
95	Time-dependent transport in mesoscopic systems: general formalism and applications. Semiconductor Science and Technology, 1994, 9, 926-929.	1.0	10
96	New Spin-Orbit-Induced Universality Class in the Integer Quantum Hall Regime. Physical Review Letters, 2002, 89, 076602.	2.9	10
97	Large Tunable Thermophase in Superconductor – Quantum Dot – Superconductor Josephson Junctions. Scientific Reports, 2016, 6, 35116.	1.6	10
98	Motif-pattern dependence of biomolecular phase separation driven by specific interactions. PLoS Computational Biology, 2021, 17, e1009748.	1.5	10
99	How to Measure the Transmission Phase through a Quantum Dot in a Two-Terminal Interferometer. Physical Review Letters, 2010, 104, 256801.	2.9	9
100	Vibration-Assisted and Vibration-Hampered Excitonic Quantum Transport. Journal of Physical Chemistry Letters, 2018, 9, 3143-3148.	2.1	9
101	Effect of amplitude fluctuations on the Berezinskii-Kosterlitz-Thouless transition. Physical Review B, 2013, 88, .	1.1	8
102	Local current distribution and hot spots in the integer quantum Hall regime. Physical Review B, 2006, 74, .	1.1	7
103	Anti-levitation in integer quantum Hall systems. Physical Review B, 2014, 89, .	1.1	7
104	Reanalysis of "Dilute random-field Ising models and uniform-field antiferromagnets". Physical Review B, 1986, 34, 3469-3470.	1.1	6
105	Dilute spin glass at zero temperature in general dimension. Physical Review B, 1989, 40, 4824-4832.	1.1	6
106	Resistance distributions of the random resistor network near the percolation threshold. Physical Review B, 1990, 41, 4610-4618.	1.1	6
107	Phase switching in a voltage-biased Aharonov-Bohm interferometer. Physical Review B, 2008, 77, .	1.1	6
108	Continuous and reversible tuning of the disorder-driven superconductor–insulator transition in bilayer graphene. Scientific Reports, 2015, 5, 13466.	1.6	6

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109	Distribution of the logarithms of currents in percolating resistor networks. II. Series expansions. Physical Review B, 1993, 47, 5770-5782.	1.1	5
110	Percolation-type description of the metal–insulator transition in two dimensions. Physica A: Statistical Mechanics and Its Applications, 2001, 302, 391-403.	1.2	5
111	Magnetoresistance anisotropy in amorphous superconducting thin films: Site-bond percolation approach. Physical Review B, 2015, 92, .	1.1	5
112	Quasiparticle Tunneling through a Barrier in the Fractional Quantum Hall Regime. Physical Review Letters, 2005, 95, 136803.	2.9	4
113	Quantum phase transition in a realistic double-quantum-dot system. Scientific Reports, 2018, 8, 10539.	1.6	4
114	Interaction-induced charge transfer in a mesoscopic electron spectrometer. Physical Review B, 2019, 100, .	1.1	4
115	piRNAs of <i>Caenorhabditis elegans</i> broadly silence nonself sequences through functionally random targeting. Nucleic Acids Research, 2022, 50, 1416-1429.	6.5	4
116	Viscous fingers on fractals. Physica A: Statistical Mechanics and Its Applications, 1989, 157, 524-528.	1.2	3
117	Percolation in negative field and lattice animals. Physical Review B, 1989, 39, 649-656.	1.1	2
118	A VARIATIONAL GROUND-STATE FOR THE Î $^{1}\!/_{2}$ =2/3 FRACTIONAL QUANTUM HALL REGIME. International Journal of Modern Physics B, 1996, 10, 1425-1437.	1.0	2
119	Luttinger-Liquid Behavior in Tunneling through a Quantum Dot at Zero Magnetic Field. Physical Review Letters, 2002, 89, 256401.	2.9	2
120	Time-dependent density functional theory of excitation energies of closed-shell quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 486-489.	1.3	2
121	Electronic transport in graphene nanostructures on SiO2. Solid State Communications, 2012, 152, 1306-1310.	0.9	2
122	Enzyme regulation and mutation in a model serial-dilution ecosystem. Physical Review E, 2021, 104, 044412.	0.8	2
123	Diffusion on Percolation Clusters. , 1987, , 213-216.		2
124	Seminar 3 Transport through quantum point contacts. Les Houches Summer School Proceedings, 2005, , 479-493.	0.2	1
125	Superconducting islands, phase fluctuations and the superconductor–insulator transition. Physica C: Superconductivity and Its Applications, 2008, 468, 354-357.	0.6	1
126	Controlled breaking of phase symmetry in a "Which-Path?" interferometer. Journal of Physics: Conference Series, 2009, 193, 012011.	0.3	1

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127	Stern-Gerlach Interferometry with the Atom Chip. , 2021, , 263-301.		1
128	PERCOLATION APPROACH TO THE METAL–INSULATOR TRANSITION IN TWO DIMENSIONS. International Journal of Modern Physics B, 2001, 15, 2641-2645.	1.0	0
129	Instability to Local Moment Formation in a Quantum Point Contact. Journal of the Physical Society of Japan, 2003, 72, 85-86.	0.7	0
130	Tunneling spectroscopy of disordered two-dimensional electron gas in the quantum Hall regime. Physical Review B, 2011, 84, .	1.1	0
131	Phase-coherent Electron Transport through Double Dots. , 2010, , 305-315.		0
132	Spin-Orbit Effects in Disordered Systems. NATO ASI Series Series B: Physics, 1991, , 91-97.	0.2	0
133	Hysteresis and jumps in the <mml:math 3 xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>I</mml:mi><mml:mtext>â^'</mml:mtext><mmtmi>V< curves of disordered two-dimensional materials. Physical Review B, 2022, 105, .</mmtmi></mml:mrow></mml:math 		mmokmi>V