Zohar Nussinov

List of Publications by Year
in descending order

Version: 2024-02-01

36 papers	1,370 citations	471509 17 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	1097 citing authors

#	Article	IF	Citations
1	Compass models: Theory and physical motivations. Reviews of Modern Physics, 2015, 87, 1-59.	45.6	228
2	A symmetry principle for topological quantum order. Annals of Physics, 2009, 324, 977-1057.	2.8	180
3	Autocorrelations and thermal fragility of anyonic loops in topologically quantum ordered systems. Physical Review B, 2008, 77, .	3.2	133
4	Sufficient symmetry conditions for Topological Quantum Order. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16944-16949.	7.1	111
5	Generalized Elitzurâ€™s theorem and dimensional reductions. Physical Review B, 2005, 72, .	3.2	94
6	The bond-algebraic approach to dualities. Advances in Physics, 2011, 60, 679-798.	14.4	79
7	Bond algebras and exact solvability of Hamiltonians: SpinS=12multilayer systems. Physical Review B, 2009, 79, .	3.2	70
8	Triviality of the BCS-BEC crossover in extended dimensions: Implications for the ground state energy. Physical Review A, 2006, 74, .	2.5	53
9	Arbitrary dimensional Majorana dualities and architectures for topological matter. Physical Review B, 2012, 86, .	3.2	43
10	Holographic symmetries and generalized order parameters for topological matter. Physical Review B, 2013, 87, .	3.2	34
11	Effective and exact holographies from symmetries and dualities. Annals of Physics, 2012, 327, 2491-2521.	2.8	31
12	Selective imaging of solid tumours via the calcium-dependent high-affinity binding of a cyclic octapeptide to phosphorylated Annexin A2. Nature Biomedical Engineering, 2020, 4, 298-313.	22.5	31
13	Pairing and non-Fermi liquid behavior in partially flat-band systems: Beyond nesting physics. Physical Review B, 2020, 101, .	3.2	24
14	Entangled Pauli principles: The DNA of quantum Hall fluids. Physical Review B, 2018, 98, .	3.2	23
15	Voltage dependence of Landau-Lifshitz-Gilbert damping of spin in a current-driven tunnel junction. Physical Review B, 2006, 73, .	3.2	17
16	INTERMEDIATE SYMMETRIES IN ELECTRONIC SYSTEMS: DIMENSIONAL REDUCTION, ORDER OUT OF DISORDER, DUALITIES, AND FRACTIONALIZATION. International Journal of Modern Physics B, 2006, 20, 5239-5249.	2.0	17
17	Zero modes, bosonization, and topological quantum order: The Laughlin state in second quantization. Physical Review B, 2015, 91, .	3.2	17
18	Mapping between finite temperature classical and zero temperature quantum systems: Quantum critical jamming and quantum dynamical heterogeneities. Physical Review B, 2013, 87, .	3.2	16

#	Article	IF	Citations
19	On Entropy Production in the Madelung Fluid and the Role of Bohmâ€™s Potential in Classical Diffusion. Foundations of Physics, 2016, 46, 815-824.	1.3	16
20	Local Two-Body Parent Hamiltonians for the Entire Jain Sequence. Physical Review Letters, 2020, 124, 196803.	7.8	16
21	Enhanced correlations and superconductivity in weakly interacting partially flat-band systems: A determinantal quantum Monte Carlo study. Physical Review B, 2019, 99, .	3.2	14
22	Absence of finite temperature phase transitions in the X-Cube model and its Zp generalization. Annals of Physics, 2020, 412, 168018.	2.8	14
23	Classification of nematic order in 2â€‰+â€‰1 dimensions: Dislocation melting and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>O</mml:mi></mml:math>(2)/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Z</mml:mi><mml:mi>N</mml:mi></mml:msub></mml: gauge theory. Physical Review B, 2015, 91, .	3.2	13
24	Josephson Currents Induced by the Witten Effect. Physical Review Letters, 2016, 117, 167002.	7.8	13
25	Renormalization, duality, and phase transitions in two- and three-dimensional quantum dimer models. Physical Review B, 2009, 80, .	3.2	12
26	Demagnetization-borne microscale skyrmions. Physical Review B, 2012, 86, .	3.2	12
27	Fractional Angular Momentum at Topological Insulator Interfaces. Physical Review Letters, 2018, 121, 227001.	7.8	12
28	Universality Classes of Stabilizer Code Hamiltonians. Physical Review Letters, 2019, 123, 230503.	7.8	12
29	A one parameter fit for glassy dynamics as a quantum corollary of the liquid to solid transition. Philosophical Magazine, 2017, 97, 1509-1566.	1.6	10
30	Quantum induced broadening: A challenge for cosmic neutrino background discovery. Physical Review D, 2022, 105, .	4.7	8
31	The Glassy Response of Double Torsion Oscillators inÂSolid 4He. Journal of Low Temperature Physics, 2011, 162, 500-508.	1.4	7
32	Robust topological degeneracy of classical theories. Physical Review B, 2016, 93, .	3.2	4
33	Duality of a compact topological superconductor model and the Witten effect. Physical Review D, 2016, 94, .	4.7	3
34	Exact solution and correlations of a dimer model on the checkerboard lattice. Physical Review B, 2020, 102, .	3.2	2
35	Binomial Spin Glass. Physical Review Letters, 2018, 121, 080601.	7.8	1
36	INTERMEDIATE SYMMETRIES IN ELECTRONIC SYSTEMS: DIMENSIONAL REDUCTION, ORDER OUT OF DISORDER, DUALITIES, AND FRACTIONALIZATION. , 2006, , .		0