Julien Vidal

List of Publications by Year
in descending order

70 papers	4,829 citations

81900

39 h-index	69 g-index

91884

70 all docs	70 docs citations	70 times ranked	2140 citing authors

#	Article	IF	Citations
1	Partition function of the Levin-Wen model. Physical Review B, 2022, 105, .	3.2	2
2	Competing topological orders in three dimensions. SciPost Physics, 2022, 12, .	4.9	9
3	Wegner-Wilson loops in string nets. Physical Review B, 2021, 103, .	3.2	3
4	Parity of Chern numbers in the Kitaev honeycomb model and the sixteenfold way. Physical Review B, 2020, 102, .	3.2	8
5	Landau level broadening, hyperuniformity, and discrete scale invariance. Physical Review B, 2019, 100, .	3.2	4
6	Tensor-network approach to phase transitions in string-net models. Physical Review B, 2019, 100, .	3.2	18
7	Ising versus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:msub><mml:m string-net ladder. Physical Review B, 2018, 97, .	3.2	3
8	Landau levels in quasicrystals. Physical Review B, 2018, 98, .	3.2	14
9	Bridging Perturbative Expansions with Tensor Networks. Physical Review Letters, 2017, 119, 070401.	7.8	30
10	Bound states in string nets. Physical Review B, 2016, 94, .	3.2	6
11	Hofstadter butterfly of a quasicrystal. Physical Review B, 2016, 94, .	3.2	36
12	Mean-field ansatz for topological phases with string tension. Physical Review B, 2015, 92, .	3.2	17
13	Russian doll spectrum in a non-Abelian string-net ladder. Physical Review B, 2015, 91, .	3.2	9
14	Phase Diagram of an Extended Quantum Dimer Model on the Hexagonal Lattice. Physical Review Letters, 2015, 115, 217202.	7.8	20
15	Ising anyons with a string tension. Physical Review B, 2014, 89, .	3.2	24
16	Spectroscopy of a topological phase. Physical Review B, 2014, 89, .	3.2	10
17	Topological Phase Transitions in the Golden String-Net Model. Physical Review Letters, 2013, 110, 147203.	7.8	39
18	Breakdown of a perturbed $oldsymbol{mathbbm{Z}}_N$ topological phase. New Journal of Physics, 2012, 14, 025005.	2.9	62

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19	Finite-temperature mutual information in a simple phase transition. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P01023.	2.3	63
20	Fate of Dirac points in a vortex superlattice. Physical Review B, 2011, 84, .	3.2	15
21	Quantum phase transitions in fully connected spin models: An entanglement perspective. Physical Review A, 2011, 83, .	2.5	39
22	Robustness of a Perturbed Topological Phase. Physical Review Letters, 2011, 106, 107203.	7.8	116
23	Universality of the negativity in the Lipkin-Meshkov-Glick model. Physical Review A, 2010, 81, .	2.5	72
24	Bound states in two-dimensional spin systems near the Ising limit: A quantum finite-lattice study. Physical Review B, 2010, 81, .	3.2	41
25	Kitaev model and dimer coverings on the honeycomb lattice. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P08010.	2.3	18
26	Self-duality and bound states of the toric code model in a transverse field. Physical Review B, 2009, 80, .	3.2	90
27	Low-energy effective theory of the toric code model in a parallel magnetic field. Physical Review B, 2009, 79, .	3.2	114
28	Exact spectrum of the Lipkin-Meshkov-Glick model in the thermodynamic limit and finite-size corrections. Physical Review E, 2008, 78, 021106.	2.1	179
29	Equivalence of Critical Scaling Laws for Many-Body Entanglement in the Lipkin-Meshkov-Glick Model. Physical Review Letters, 2008, 101, 025701.	7.8	154
30	Perturbative study of the Kitaev model with spontaneous time-reversal symmetry breaking. Physical Review B, 2008, 78, .	3.2	48
31	Emergent Fermions and Anyons in the Kitaev Model. Physical Review Letters, 2008, 100, 057208.	7.8	77
32	Creation and Manipulation of Anyons in the Kitaev Model. Physical Review Letters, 2008, 100, 177204.	7.8	67
33	Perturbative approach to an exactly solved problem: Kitaev honeycomb model. Physical Review B, 2008, 78, .	3.2	61
34	Entanglement entropy in collective models. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01015-P01015.	2.3	75
35	Two-level interacting boson models beyond the mean field. Physical Review C, 2007, 75, .	2.9	41
36	Thermodynamical Limit of the Lipkin-Meshkov-Glick Model. Physical Review Letters, 2007, 99, 050402.	7.8	180

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37	Concurrence in collective models. Physical Review A, 2006, 73, .	2.5	70
38	Finite-size scaling exponents in the Dicke model. Europhysics Letters, 2006, 74, 817-822.	2.0	145
39	Entanglement Entropy beyond the Free Case. Physical Review Letters, 2006, 97, 220402.	7.8	82
40	Scalar two-level boson model to study the interacting boson model phase diagram in the Casten triangle. Physical Review C, 2006, 73, .	2.9	38
41	Finite-size scaling exponents in the interacting boson model. Physical Review C, 2005, 72, .	2.9	31
42	Finite-size scaling exponents and entanglement in the two-level BCS model. Physical Review A, 2005, 71, .	2.5	32
43	Continuous unitary transformations in two-level boson systems. Physical Review C, 2005, 72, .	2.9	38
44	Entanglement entropy in the Lipkin-Meshkov-Glick model. Physical Review A, 2005, 71, .	2.5	150
45	Continuous unitary transformations and finite-size scaling exponents in the Lipkin-Meshkov-Glick model. Physical Review B, 2005, 71, .	3.2	212
46	Discrete non-Abelian gauge theories in Josephson-junction arrays and quantum computation. Physical Review B, 2004, 69, .	3.2	71
47	Entanglement dynamics in the Lipkin-Meshkov-Glick model. Physical Review A, 2004, 70, .	2.5	124
48	Entanglement in a first-order quantum phase transition. Physical Review A, 2004, 69, .	2.5	137
49	Finite-Size Scaling Exponents of the Lipkin-Meshkov-Glick Model. Physical Review Letters, 2004, 93, 237204.	7.8	206
50	Entanglement in a second-order quantum phase transition. Physical Review A, 2004, 69, .	2.5	259
51	Anomalous quantum diffusion in two- and three-dimensional generalized Rauzy tilings. Journal of Non-Crystalline Solids, 2004, 334-335, 91-95.	3.1	0
52	Quasiperiodic tilings in a magnetic field. Journal of Non-Crystalline Solids, 2004, 334-335, 130-136.	3.1	11
53	Optimization of the derivative expansion in the nonperturbative renormalization group. Physical Review D, 2003, 67, .	4.7	151
54	Nonperturbative renormalization group approach to the Ising model: A derivative expansion at orderâˆ‚4. Physical Review B, 2003, 68, .	3.2	154

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55	Quantum dynamics in high codimension tilings: From quasiperiodicity to disorder. Physical Review B, 2003, 68, .	3.2	10
56	Pairing of Cooper Pairs in a Fully Frustrated Josephson-Junction Chain. Physical Review Letters, 2002, 88, 227005.	7.8	135
57	Randomly dilute Ising model:â€ƒA nonperturbative approach. Physical Review B, 2002, 65, .	3.2	42
58	Quantum dynamics in two- and three-dimensional quasiperiodic tilings. Physical Review B, 2002, 65, .	3.2	74
59	INTERACTIONS IN QUASICRYSTALS. International Journal of Modern Physics B, 2001, 15, 1329-1337.	2.0	3
60	Generalized quasiperiodic Rauzy tilings. Journal of Physics A, 2001, 34, 3927-3938.	1.6	14
61	Strongly correlated hopping and many-body bound states. Physical Review B, 2001, 65, .	3.2	11
62	Disorder and interactions in Aharonov-Bohm cages. Physical Review B, 2001, 64, .	3.2	116
63	Interacting fermions in self-similar potentials. Physical Review B, 2001, 65, .	3.2	52
64	Generalized Rauzy tilings: construction and electronic properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 572-575.	5.6	6
65	Transmission through quantum networks. Physical Review B, 2000, 62, R16294-R16297.	3.2	48
66	Interaction Induced Delocalization for Two Particles in a Periodic Potential. Physical Review Letters, 2000, 85, 3906-3909.	7.8	136
67	Spectrum and diffusion for a class of tight-binding models on hypercubes. Journal of Physics A, 1999, 32, 2361-2367.	1.6	5
68	Correlated Fermions in a One-Dimensional Quasiperiodic Potential. Physical Review Letters, 1999, 83, 3908-3911.	7.8	77
69	Magnetic Field Induced Localization in a Two-Dimensional Superconducting Wire Network. Physical Review Letters, 1999, 83, 5102-5105.	7.8	103
70	Aharonov-Bohm Cages in Two-Dimensional Structures. Physical Review Letters, 1998, 81, 5888-5891.	7.8	322