Robert B Griffiths

List of Publications by Year
in descending order

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137 papers	14,134 citations	28274 55 h-index	19190 118 g-index
140 all docs	140 docs citations	140 times ranked	4652 citing authors

#	Article	IF	Citations
1	Ising Model for theÎ»Transition and Phase Separation inHe3-He4Mixtures. Physical Review A, 1971, 4, 1071-1077.	2.5	1,405
2	Nonanalytic Behavior Above the Critical Point in a Random Ising Ferromagnet. Physical Review Letters, 1969, 23, 17-19.	7.8	1,355
3	Consistent histories and the interpretation of quantum mechanics. Journal of Statistical Physics, 1984, 36, 219-272.	1.2	859
4	Critical Points in Multicomponent Systems. Physical Review A, 1970, 2, 1047-1064.	2.5	725
5	Thermodynamics Near the Two-Fluid Critical Mixing Point inHe3-He4. Physical Review Letters, 1970, 24, 715-717.	7.8	452
6	Optimal eavesdropping in quantum cryptography. I. Information bound and optimal strategy. Physical Review A, 1997, 56, 1163-1172.	2.5	396
7	Thermodynamic Functions for Fluids and Ferromagnets near the Critical Point. Physical Review, 1967, 158, 176-187.	2.7	389
8	Correlations in Ising Ferromagnets. I. Journal of Mathematical Physics, 1967, 8, 478-483.	1.1	389
9	Magnetization Curve at Zero Temperature for the Antiferromagnetic Heisenberg Linear Chain. Physical Review, 1964, 133, A768-A775.	2.7	356
10	Semiclassical Fourier Transform for Quantum Computation. Physical Review Letters, 1996, 76, 3228-3231.	7.8	290
11	Dependence of Critical Indices on a Parameter. Physical Review Letters, 1970, 24, 1479-1482.	7.8	289
12	Spin systems on hierarchical lattices. Introduction and thermodynamic limit. Physical Review B, 1982, 26, 5022-5032.	3.2	269
13	Lattice-gas model of multiple layer adsorption. Surface Science, 1978, 71, 687-694.	1.9	260
14	Proposal for Notation at Tricritical Points. Physical Review B, 1973, 7, 545-551.	3.2	237
15	Correlations in Ising Ferromagnets. II. External Magnetic Fields. Journal of Mathematical Physics, 1967, 8, 484-489.	1.1	226
16	The (Ï†4)2 field theory as a classical Ising model. Communications in Mathematical Physics, 1973, 33, 145-164.	2.2	225
17	Thermodynamic model for tricritical points in ternary and quaternary fluid mixtures. Journal of Chemical Physics, 1974, 60, 195-206.	3.0	218
18	Peierls Proof of Spontaneous Magnetization in a Two-Dimensional Ising Ferromagnet. Physical Review, 1964, 136, A437-A439.	2.7	216

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19	Concavity of Magnetization of an Ising Ferromagnet in a Positive External Field. Journal of Mathematical Physics, 1970, 11, 790-795.	1.1	207
20	Global phase diagram for a three-component model. Physical Review B, 1977, 15, 441-464.	3.2	199
21	Exactly soluble Ising models on hierarchical lattices. Physical Review B, 1981, 24, 496-498.	3.2	195
22	Rigorous Results for Ising Ferromagnets of Arbitrary Spin. Journal of Mathematical Physics, 1969, 10, 1559-1565.	1.1	191
23	A Proof that the Free Energy of a Spin System is Extensive. Journal of Mathematical Physics, 1964, 5, 1215-1222.	1.1	186
24	Consistent histories and quantum reasoning. Physical Review A, 1996, 54, 2759-2774.	2.5	151
25	Thermodynamic Properties near the Liquid-Vapor Critical Line in Mixtures ofHe3andHe4. Physical Review A, 1973, 8, 2670-2683.	2.5	148
26	Free Energy of Interacting Magnetic Dipoles. Physical Review, 1968, 176, 655-659.	2.7	139
27	Relaxation Times for Metastable States in the Mean-Field Model of a Ferromagnet. Physical Review, 1966, 149, 301-305.	2.7	130
28	Ferromagnets and Simple Fluids near the Critical Point: Some Thermodynamic Inequalities. Journal of Chemical Physics, 1965, 43, 1958-1968.	3.0	128
29	Density of Zeros on the Lee-Yang Circle for Two Ising Ferromagnets. Physical Review Letters, 1971, 27, 1439-1442.	7.8	123
30	Choice of consistent family, and quantum incompatibility. Physical Review A, 1998, 57, 1604-1618.	2.5	121
31	Spin systems on hierarchical lattices. II. Some examples of soluble models. Physical Review B, 1984, 30, 244-249.	3.2	112
32	Two-qubit copying machine for economical quantum eavesdropping. Physical Review A, 1999, 60, 2764-2776.	2.5	111
33	Correlations in separated quantum systems: A consistent history analysis of the EPR problem. American Journal of Physics, 1987, 55, 11-17.	0.7	109
34	Ground states of one-dimensional systems using effective potentials. Physical Review B, 1986, 34, 6219-6234.	3.2	108
35	Consistent Histories and Quantum Measurements. Physics Today, 1999, 52, 26-31.	0.3	107
36	Consistent interpretation of quantum mechanics using quantum trajectories. Physical Review Letters, 1993, 70, 2201-2204.	7.8	105

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37	Thermodynamic Inequality Near the Critical Point for Ferromagnets and Fluids. Physical Review Letters, 1965, 14, 623-624.	7.8	103
38	Spontaneous Magnetization in Idealized Ferromagnets. Physical Review, 1966, 152, 240-246.	2.7	99
39	Phase diagrams and higher-order critical points. Physical Review B, 1975, 12, 345-355.	3.2	96
40	Correlations in Ising ferromagnets. III. Communications in Mathematical Physics, 1967, 6, 121-127.	2.2	95
41	Three-component model and tricritical points: A renormalization-group study. Two dimensions. Physical Review B, 1981, 23, 3448-3459.	3.2	94
42	Mathematical properties of position-space renormalization-group transformations. Journal of Statistical Physics, 1979, 20, 499-545.	1.2	89
43	Microcanonical Ensemble in Quantum Statistical Mechanics. Journal of Mathematical Physics, 1965, 6, 1447-1461.	1.1	88
44	Effective Potentials: A New Approach and New Results for One-Dimensional Systems with Competing Length Scales. Physical Review Letters, 1986, 56, 1929-1931.	7.8	86
45	Global phase diagram for a Van der Waals model of a binary mixture. Physical Review A, 1978, 17, 1139-1148.	2.5	85
46	Position-Space Renormalization-Group Transformations: Some Proofs and Some Problems. Physical Review Letters, 1978, 41, 917-920.	7.8	77
47	Multicomponent-Fluid Tricritical Points. Physical Review A, 1973, 8, 2173-2175.	2.5	74
48	Quantum-error-correcting codes using qudit graph states. Physical Review A, 2008, 78, .	2.5	74
49	Random Spin Systems: Some Rigorous Results. Journal of Mathematical Physics, 1968, 9, 1284-1292.	1.1	73
50	Strict convexity (â€œcontinuityâ€) of the pressure in lattice systems. Communications in Mathematical Physics, 1971, 23, 169-175.	2.2	71
51	Consistent quantum counterfactuals. Physical Review A, 1999, 60, R5-R8.	2.5	65
52	Evidence for Exchange-Coupled Linear Chains in Cu(NH3)4SO4Â·H2O. Physical Review, 1964, 135, A659-A660.	2.7	64
53	Optimal copying of one quantum bit. Physical Review A, 1998, 58, 4377-4393.	2.5	64
54	Information-theoretic treatment of tripartite systems and quantum channels. Physical Review A, 2011, 83, .	2.5	64

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55	Antiferromagnetic Transition in CoCl2Â·6H2O and Fisher's Relation. Physical Review, 1967, 164, 705-709.	2.7	62
56	Chemical potential by gradual insertion of a particle in Monte Carlo simulation. Physical Review A, 1985, 31, 956-959.	2.5	59
57	Bohmian mechanics and consistent histories. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 261, 227-234.	2.1	57
58	Particle path through a nested Mach-Zehnder interferometer. Physical Review A, 2016, 94, .	2.5	52
59	EPR, Bell, and quantum locality. American Journal of Physics, 2011, 79, 954-965.	0.7	51
60	Thermodynamic Bounds on Constant-Volume Heat Capacities and Adiabatic Compressibilities. Physical Review, 1968, 170, 249-256.	2.7	41
61	Critical Temperatures of Anisotropic Ising Lattices. I. Lower Bounds. Physical Review, 1967, 162, 475-479.	2.7	40
62	Comment on â€œConsistent Sets Yield Contrary Inferences in Quantum Theoryâ€• Physical Review Letters, 1998, 81, 1981-1981.	7.8	38
63	Deterministic and unambiguous dense coding. Physical Review A, 2006, 73, .	2.5	35
64	Efficient implementation of bipartite nonlocal unitary gates using prior entanglement and classical communication. Physical Review A, 2010, 81, .	2.5	35
65	Quantum Locality. Foundations of Physics, 2011, 41, 705-733.	1.3	34
66	Mathematical properties of renormalization-group transformations. Physica A: Statistical Mechanics and Its Applications, 1981, 106, 59-69.	2.6	33
67	The consistency of consistent histories: A reply to d'Espagnat. Foundations of Physics, 1993, 23, 1601-1610.	1.3	33
68	Nonlocality claims are inconsistent with Hilbert-space quantum mechanics. Physical Review A, 2020, 101, .	2.5	32
69	Separable operations on pure states. Physical Review A, 2008, 78, .	2.5	31
70	A consistent quantum ontology. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2013, 44, 93-114.	1.4	31
71	Thermodynamic model for tricritical mixtures with application to ammonium sulfate + water + ethanol + benzene. Journal of Chemical Physics, 1982, 76, 1508-1524.	3.0	29
72	First-order transitions in defect structures at a second-order critical point for the Potts model on hierarchical lattices. Physical Review B, 1982, 26, 5282-5284.	3.2	29

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73	What quantum measurements measure. Physical Review A, 2017, 96, .	2.5	28
74	Optimal eavesdropping in quantum cryptography.â€,â€,II.â€,â€,A quantum circuit. Physical Review A, 1997, 56, 1173-1176.	2.5	27
75	Convexity violations for noninteger parameters in certain lattice models. Journal of Statistical Physics, 1983, 30, 563-589.	1.2	26
76	Ferromagnetic Heat Capacity in an External Magnetic Field near the Critical Point. Physical Review, 1969, 188, 942-947.	2.7	25
77	The order parameter in a spin glass. Communications in Mathematical Physics, 1983, 90, 319-327.	2.2	25
78	Convexity of the free energy in some real-space renormalization-group approximations. Physical Review B, 1983, 28, 3864-3865.	3.2	25
79	Numerical procedure for solving a minimization eigenvalue problem. Numerische Mathematik, 1989, 55, 565-574.	1.9	25
80	Entanglement requirements for implementing bipartite unitary operations. Physical Review A, 2011, 84, .	2.5	25
81	Thermodynamic Model and Sum Rules for Three-Phase Coexistence near the Tricritical Point in a Liquid Mixture. Physical Review Letters, 1980, 44, 77-80.	7.8	24
82	Interface interactions in modulated phases, and upsilon points. Journal of Statistical Physics, 1991, 62, 45-88.	1.2	24
83	The New Quantum Logic. Foundations of Physics, 2014, 44, 610-640.	1.3	24
84	Phase transitions in anisotropic classical Heisenberg ferromagnets. Communications in Mathematical Physics, 1972, 26, 102-108.	2.2	22
85	Atemporal diagrams for quantum circuits. Physical Review A, 2006, 73, .	2.5	21
86	Types of quantum information. Physical Review A, 2007, 76, .	2.5	20
87	Ising-Model Surface Tension Using Real-Space Renormalization-Group Methods. Physical Review Letters, 1978, 40, 977-980.	7.8	19
88	Channel kets, entangled states, and the location of quantum information. Physical Review A, 2005, 71, .	2.5	19
89	Physical adsorption on patchwise heterogeneous surfaces. 3. Continuous phase transitions of krypton monolayers on (0001) graphite. The Journal of Physical Chemistry, 1977, 81, 2171-2176.	2.9	17
90	Phase transition in a ferromagnetic fluid. Physica A: Statistical Mechanics and Its Applications, 1986, 138, 220-230.	2.6	16

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91	Equivalence of certain convex and nonconvex models of spatially modulated structures. Journal of Statistical Physics, 1988, 53, 1031-1040.	1.2	15
92	Nature and location of quantum information. Physical Review A, 2002, 66, .	2.5	15
93	Location of quantum information in additive graph codes. Physical Review A, 2010, 81, .	2.5	15
94	Griffiths-Hurst-Sherman Inequalities and a Lee-Yang Therorem for the(Ï•4)2Field Theory. Physical Review Letters, 1973, 30, 931-933.	7.8	13
95	A search for multicritical points in liquid mixtures: The shield region and the threeâ€state Potts point. Journal of Chemical Physics, 1979, 70, 5555-5566.	3.0	12
96	Localized defects in classical one-dimensional models. Journal of Statistical Physics, 1988, 53, 853-892.	1.2	12
97	Consistent Quantum Realism: A Reply to Bassi and Ghirardi. Journal of Statistical Physics, 2000, 99, 1409-1425.	1.2	11
98	Consistent resolution of some relativistic quantum paradoxes. Physical Review A, 2002, 66, .	2.5	11
99	Quantum measurements and contextuality. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190033.	3.4	11
100	Positivity and Nonadditivity of Quantum Capacities Using Generalized Erasure Channels. IEEE Transactions on Information Theory, 2021, 67, 4533-4545.	2.4	11
101	Heat Capacity Singularity for a Ferromagnet in a Finite Applied Field. Journal of Applied Physics, 1969, 40, 1542-1543.	2.5	10
102	Exactly solvable model for cantorus phase transitions. Physical Review Letters, 1990, 65, 2551-2554.	7.8	10
103	Numerical study of a new type of nonconvex Frenkel-Kontorova model. Physical Review B, 1994, 49, 904-915.	3.2	10
104	Consistent histories, quantum truth functionals, and hidden variables. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 265, 12-19.	2.1	10
105	Entanglement transformations using separable operations. Physical Review A, 2007, 76, .	2.5	10
106	Tripartite entanglement in qudit stabilizer states and application in quantum error correction. Physical Review A, 2011, 84, .	2.5	10
107	Consistent quantum measurements. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2015, 52, 188-197.	1.4	10
108	Free Energy of the Antiferromagnetic Linear Chain. Physical Review, 1964, 136, A751-A752.	2.7	9

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109	Structure and motion of the Leeâ€“Yang zeros. Journal of Mathematical Physics, 1983, 24, 2637-2647.	1.1	9
110	Fast protocols for local implementation of bipartite nonlocal unitaries. Physical Review A, 2012, 85, .	2.5	9
111	Reply to â€œComment on â€˜Particle path through a nested Mach-Zehnder interferometerâ€™ â€. Physical Review A, 2017, 95, .	2.5	9
112	Quantum Counterfactuals and Locality. Foundations of Physics, 2012, 42, 674-684.	1.3	8
113	Hilbert space quantum mechanics is noncontextual. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2013, 44, 174-181.	1.4	8
114	Reply to â€œComment on â€˜Particle path through a nested Mach-Zehnder interferometer' â€. Physical Review A, 2018, 97, .	2.5	8
115	Probabilities and Quantum Reality: Are There Correlata?. Foundations of Physics, 2003, 33, 1423-1459.	1.3	7
116	Surface tension and stress in solids: The rigid-planes model. Physical Review B, 1985, 32, 3194-3202.	3.2	6
117	Consistent histories for tunneling molecules subject to collisional decoherence. Physical Review A, 2012, 86, .	2.5	6
118	Surface stress and surface tension for solid-vapor interfaces. Surface Science, 1985, 162, 114-119.	1.9	5
119	Empty waves: A genuine effect?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 178, 17-21.	2.1	5
120	Degradable quantum channels using pure-state to product-of-pure-state isometries. Physical Review A, 2016, 94, .	2.5	5
121	Consistent Histories. , 2009, , 117-122.		5
122	Epistemic restrictions in Hilbert space quantum mechanics. Physical Review A, 2013, 88, .	2.5	4
123	Power-Series Expansions and Specific-Heat Singularities Near theHe4Critical Point. Physical Review Letters, 1966, 16, 787-788.	7.8	3
124	Quantum Information: What Is It All About?. Entropy, 2017, 19, 645.	2.2	3
125	Reply to â€œComment on â€˜Nonlocality claims are inconsistent with Hilbert-space quantum mechanicsâ€™ â€. Physical Review A, 2021, 104, .	2.5	3
126	Making Consistent Inferences from Quantum Measurements. Annals of the New York Academy of Sciences, 1986, 480, 512-517.	3.8	2

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127	Consistent Histories and Quantum Delayed Choice. Fortschritte Der Physik, 1998, 46, 741-748.	4.4	2
128	Interpretations of quantum mechanics. Physics Today, 2019, 72, 11-13.	0.3	2
129	Correlation-Function Inequality Obtained by Yeh. Physical Review B, 1970, 1, 3883-3883.	3.2	1
130	Critical phenomena at phase transitions in fluids and model ferromagnets. Ferroelectrics, 1974, 7, 71-78.	0.6	1
131	Comment on "Approaches to the Tricritical Point in Quasibinary Fluid Mixtures". Physical Review Letters, 1984, 53, 741-741.	7.8	1
132	Measured responses to quantum Bayesianism. Physics Today, 2012, 65, 8-9.	0.3	1
133	Griffiths replies. Physical Review Letters, 1994, 72, 1771-1771.	7.8	0
134	Reply to â€œComment on â€˜Consistent histories and quantum reasoningâ€™ â€• Physical Review A, 1998, 58, 3356-3357.	2.5	0
135	Readers offer their own magic moments with John Bell. Physics Today, 2015, 68, 10-10.	0.3	0
136	Separable Operations on Pure States. , 2008, , .		0
137	COMMENSURATE-INCOMMENSURATE TRANSITIONS AND AREA-PRESERVING MAPS : THE FRENKEL-KONTOROVA MODEL. , 1991, , 243-265.		0