

# Robert B Griffiths

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5289595/publications.pdf>

Version: 2024-02-01

137  
papers

14,134  
citations

32410

55  
h-index

22488

117  
g-index

140  
all docs

140  
docs citations

140  
times ranked

5164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Positivity and Nonadditivity of Quantum Capacities Using Generalized Erasure Channels. IEEE Transactions on Information Theory, 2021, 67, 4533-4545.	1.5	11
2	Reply to "Comment on "Nonlocality claims are inconsistent with Hilbert-space quantum mechanics"â€™"â€• Physical Review A, 2021, 104, .	1.0	3
3	Nonlocality claims are inconsistent with Hilbert-space quantum mechanics. Physical Review A, 2020, 101, .	1.0	32
4	Quantum measurements and contextuality. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190033.	1.6	11
5	Interpretations of quantum mechanics. Physics Today, 2019, 72, 11-13.	0.3	2
6	Reply to "Comment on "Particle path through a nested Mach-Zehnder interferometer"â€™"â€• Physical Review A, 2018, 97, .	1.0	8
7	What quantum measurements measure. Physical Review A, 2017, 96, .	1.0	28
8	Reply to "Comment on "Particle path through a nested Mach-Zehnder interferometer"â€™"â€• Physical Review A, 2017, 95, .	1.0	9
9	Quantum Information: What Is It All About?. Entropy, 2017, 19, 645.	1.1	3
10	Particle path through a nested Mach-Zehnder interferometer. Physical Review A, 2016, 94, .	1.0	52
11	Degradable quantum channels using pure-state to product-of-pure-state isometries. Physical Review A, 2016, 94, .	1.0	5
12	Readers offer their own magic moments with John Bell. Physics Today, 2015, 68, 10-10.	0.3	0
13	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
14	The New Quantum Logic. Foundations of Physics, 2014, 44, 610-640.	0.6	24
15	Epistemic restrictions in Hilbert space quantum mechanics. Physical Review A, 2013, 88, .	1.0	4
16	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
17	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
18	Measured responses to quantum Bayesianism. Physics Today, 2012, 65, 8-9.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Consistent histories for tunneling molecules subject to collisional decoherence. <i>Physical Review A</i> , 2012, 86, .	1.0	6
20	Fast protocols for local implementation of bipartite nonlocal unitaries. <i>Physical Review A</i> , 2012, 85, .	1.0	9
21	Quantum Counterfactuals and Locality. <i>Foundations of Physics</i> , 2012, 42, 674-684.	0.6	8
22	Information-theoretic treatment of tripartite systems and quantum channels. <i>Physical Review A</i> , 2011, 83, .	1.0	64
23	Tripartite entanglement in qudit stabilizer states and application in quantum error correction. <i>Physical Review A</i> , 2011, 84, .	1.0	10
24	EPR, Bell, and quantum locality. <i>American Journal of Physics</i> , 2011, 79, 954-965.	0.3	51
25	Quantum Locality. <i>Foundations of Physics</i> , 2011, 41, 705-733.	0.6	34
26	Entanglement requirements for implementing bipartite unitary operations. <i>Physical Review A</i> , 2011, 84, .	1.0	25
27	Efficient implementation of bipartite nonlocal unitary gates using prior entanglement and classical communication. <i>Physical Review A</i> , 2010, 81, .	1.0	35
28	Location of quantum information in additive graph codes. <i>Physical Review A</i> , 2010, 81, .	1.0	15
29	Consistent Histories. , 2009, , 117-122.		5
30	Separable operations on pure states. <i>Physical Review A</i> , 2008, 78, .	1.0	31
31	Quantum-error-correcting codes using qudit graph states. <i>Physical Review A</i> , 2008, 78, .	1.0	74
32	Separable Operations on Pure States. , 2008, , .		0
33	Entanglement transformations using separable operations. <i>Physical Review A</i> , 2007, 76, .	1.0	10
34	Types of quantum information. <i>Physical Review A</i> , 2007, 76, .	1.0	20
35	Atemporal diagrams for quantum circuits. <i>Physical Review A</i> , 2006, 73, .	1.0	21
36	Deterministic and unambiguous dense coding. <i>Physical Review A</i> , 2006, 73, .	1.0	35

#	ARTICLE	IF	CITATIONS
37	Channel kets, entangled states, and the location of quantum information. <i>Physical Review A</i> , 2005, 71, .	1.0	19
38	Probabilities and Quantum Reality: Are There Correlata?. <i>Foundations of Physics</i> , 2003, 33, 1423-1459.	0.6	7
39	Consistent resolution of some relativistic quantum paradoxes. <i>Physical Review A</i> , 2002, 66, .	1.0	11
40	Nature and location of quantum information. <i>Physical Review A</i> , 2002, 66, .	1.0	15
41	Consistent histories, quantum truth functionals, and hidden variables. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 265, 12-19.	0.9	10
42	Consistent Quantum Realism: A Reply to Bassi and Ghirardi. <i>Journal of Statistical Physics</i> , 2000, 99, 1409-1425.	0.5	11
43	Two-qubit copying machine for economical quantum eavesdropping. <i>Physical Review A</i> , 1999, 60, 2764-2776.	1.0	111
44	Consistent quantum counterfactuals. <i>Physical Review A</i> , 1999, 60, R5-R8.	1.0	65
45	Bohmian mechanics and consistent histories. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 261, 227-234.	0.9	57
46	Consistent Histories and Quantum Measurements. <i>Physics Today</i> , 1999, 52, 26-31.	0.3	107
47	Consistent Histories and Quantum Delayed Choice. <i>Fortschritte Der Physik</i> , 1998, 46, 741-748.	1.5	2
48	Comment on "Consistent Sets Yield Contrary Inferences in Quantum Theory". <i>Physical Review Letters</i> , 1998, 81, 1981-1981.	2.9	38
49	Choice of consistent family, and quantum incompatibility. <i>Physical Review A</i> , 1998, 57, 1604-1618.	1.0	121
50	Reply to "Comment on "Consistent histories and quantum reasoning". <i>Physical Review A</i> , 1998, 58, 3356-3357.	1.0	0
51	Optimal copying of one quantum bit. <i>Physical Review A</i> , 1998, 58, 4377-4393.	1.0	64
52	Optimal eavesdropping in quantum cryptography. A quantum circuit. <i>Physical Review A</i> , 1997, 56, 1173-1176.	1.0	27
53	Optimal eavesdropping in quantum cryptography. I. Information bound and optimal strategy. <i>Physical Review A</i> , 1997, 56, 1163-1172.	1.0	396
54	Semiclassical Fourier Transform for Quantum Computation. <i>Physical Review Letters</i> , 1996, 76, 3228-3231.	2.9	290

#	ARTICLE	IF	CITATIONS
55	Consistent histories and quantum reasoning. <i>Physical Review A</i> , 1996, 54, 2759-2774.	1.0	151
56	Numerical study of a new type of nonconvex Frenkel-Kontorova model. <i>Physical Review B</i> , 1994, 49, 904-915.	1.1	10
57	Griffiths replies. <i>Physical Review Letters</i> , 1994, 72, 1771-1771.	2.9	0
58	Empty waves: A genuine effect?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 178, 17-21.	0.9	5
59	The consistency of consistent histories: A reply to d'Espagnat. <i>Foundations of Physics</i> , 1993, 23, 1601-1610.	0.6	33
60	Consistent interpretation of quantum mechanics using quantum trajectories. <i>Physical Review Letters</i> , 1993, 70, 2201-2204.	2.9	105
61	Interface interactions in modulated phases, and upilon points. <i>Journal of Statistical Physics</i> , 1991, 62, 45-88.	0.5	24
62	COMMENSURATE-INCOMMENSURATE TRANSITIONS AND AREA-PRESERVING MAPS : THE FRENKEL-KONTOROVA MODEL. , 1991, , 243-265.		0
63	Exactly solvable model for cantorus phase transitions. <i>Physical Review Letters</i> , 1990, 65, 2551-2554.	2.9	10
64	Numerical procedure for solving a minimization eigenvalue problem. <i>Numerische Mathematik</i> , 1989, 55, 565-574.	0.9	25
65	Localized defects in classical one-dimensional models. <i>Journal of Statistical Physics</i> , 1988, 53, 853-892.	0.5	12
66	Equivalence of certain convex and nonconvex models of spatially modulated structures. <i>Journal of Statistical Physics</i> , 1988, 53, 1031-1040.	0.5	15
67	Correlations in separated quantum systems: A consistent history analysis of the EPR problem. <i>American Journal of Physics</i> , 1987, 55, 11-17.	0.3	109
68	Ground states of one-dimensional systems using effective potentials. <i>Physical Review B</i> , 1986, 34, 6219-6234.	1.1	108
69	Making Consistent Inferences from Quantum Measurements. <i>Annals of the New York Academy of Sciences</i> , 1986, 480, 512-517.	1.8	2
70	Phase transition in a ferromagnetic fluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 138, 220-230.	1.2	16
71	Effective Potentials: A New Approach and New Results for One-Dimensional Systems with Competing Length Scales. <i>Physical Review Letters</i> , 1986, 56, 1929-1931.	2.9	86
72	Chemical potential by gradual insertion of a particle in Monte Carlo simulation. <i>Physical Review A</i> , 1985, 31, 956-959.	1.0	59

#	ARTICLE	IF	CITATIONS
73	Surface tension and stress in solids: The rigid-planes model. <i>Physical Review B</i> , 1985, 32, 3194-3202.	1.1	6
74	Surface stress and surface tension for solid-vapor interfaces. <i>Surface Science</i> , 1985, 162, 114-119.	0.8	5
75	Comment on "Approaches to the Tricritical Point in Quasibinary Fluid Mixtures". <i>Physical Review Letters</i> , 1984, 53, 741-741.	2.9	1
76	Consistent histories and the interpretation of quantum mechanics. <i>Journal of Statistical Physics</i> , 1984, 36, 219-272.	0.5	859
77	Spin systems on hierarchical lattices. II. Some examples of soluble models. <i>Physical Review B</i> , 1984, 30, 244-249.	1.1	112
78	Convexity violations for noninteger parameters in certain lattice models. <i>Journal of Statistical Physics</i> , 1983, 30, 563-589.	0.5	26
79	The order parameter in a spin glass. <i>Communications in Mathematical Physics</i> , 1983, 90, 319-327.	1.0	25
80	Convexity of the free energy in some real-space renormalization-group approximations. <i>Physical Review B</i> , 1983, 28, 3864-3865.	1.1	25
81	Structure and motion of the Lee-Yang zeros. <i>Journal of Mathematical Physics</i> , 1983, 24, 2637-2647.	0.5	9
82	Thermodynamic model for tricritical mixtures with application to ammonium sulfate + water + ethanol + benzene. <i>Journal of Chemical Physics</i> , 1982, 76, 1508-1524.	1.2	29
83	First-order transitions in defect structures at a second-order critical point for the Potts model on hierarchical lattices. <i>Physical Review B</i> , 1982, 26, 5282-5284.	1.1	29
84	Spin systems on hierarchical lattices. Introduction and thermodynamic limit. <i>Physical Review B</i> , 1982, 26, 5022-5032.	1.1	269
85	Three-component model and tricritical points: A renormalization-group study. Two dimensions. <i>Physical Review B</i> , 1981, 23, 3448-3459.	1.1	94
86	Mathematical properties of renormalization-group transformations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1981, 106, 59-69.	1.2	33
87	Exactly soluble Ising models on hierarchical lattices. <i>Physical Review B</i> , 1981, 24, 496-498.	1.1	195
88	Thermodynamic Model and Sum Rules for Three-Phase Coexistence near the Tricritical Point in a Liquid Mixture. <i>Physical Review Letters</i> , 1980, 44, 77-80.	2.9	24
89	Mathematical properties of position-space renormalization-group transformations. <i>Journal of Statistical Physics</i> , 1979, 20, 499-545.	0.5	89
90	A search for multicritical points in liquid mixtures: The shield region and the three-state Potts point. <i>Journal of Chemical Physics</i> , 1979, 70, 5555-5566.	1.2	12

#	ARTICLE	IF	CITATIONS
91	Lattice-gas model of multiple layer adsorption. <i>Surface Science</i> , 1978, 71, 687-694.	0.8	260
92	Position-Space Renormalization-Group Transformations: Some Proofs and Some Problems. <i>Physical Review Letters</i> , 1978, 41, 917-920.	2.9	77
93	Global phase diagram for a Van der Waals model of a binary mixture. <i>Physical Review A</i> , 1978, 17, 1139-1148.	1.0	85
94	Ising-Model Surface Tension Using Real-Space Renormalization-Group Methods. <i>Physical Review Letters</i> , 1978, 40, 977-980.	2.9	19
95	Global phase diagram for a three-component model. <i>Physical Review B</i> , 1977, 15, 441-464.	1.1	199
96	Physical adsorption on patchwise heterogeneous surfaces. 3. Continuous phase transitions of krypton monolayers on (0001) graphite. <i>The Journal of Physical Chemistry</i> , 1977, 81, 2171-2176.	2.9	17
97	Phase diagrams and higher-order critical points. <i>Physical Review B</i> , 1975, 12, 345-355.	1.1	96
98	Thermodynamic model for tricritical points in ternary and quaternary fluid mixtures. <i>Journal of Chemical Physics</i> , 1974, 60, 195-206.	1.2	218
99	Critical phenomena at phase transitions in fluids and model ferromagnets. <i>Ferroelectrics</i> , 1974, 7, 71-78.	0.3	1
100	The $(\mathbb{Z}/2)^2$ field theory as a classical Ising model. <i>Communications in Mathematical Physics</i> , 1973, 33, 145-164.	1.0	225
101	Multicomponent-Fluid Tricritical Points. <i>Physical Review A</i> , 1973, 8, 2173-2175.	1.0	74
102	Proposal for Notation at Tricritical Points. <i>Physical Review B</i> , 1973, 7, 545-551.	1.1	237
103	Thermodynamic Properties near the Liquid-Vapor Critical Line in Mixtures of He3 and He4. <i>Physical Review A</i> , 1973, 8, 2670-2683.	1.0	148
104	Griffiths-Hurst-Sherman Inequalities and a Lee-Yang Theorem for the $(\mathbb{Z}/2)^2$ Field Theory. <i>Physical Review Letters</i> , 1973, 30, 931-933.	2.9	13
105	Phase transitions in anisotropic classical Heisenberg ferromagnets. <i>Communications in Mathematical Physics</i> , 1972, 26, 102-108.	1.0	22
106	Ising Model for the $\lambda$ Transition and Phase Separation in He3-He4 Mixtures. <i>Physical Review A</i> , 1971, 4, 1071-1077.	1.0	1,405
107	Strict convexity (and continuity) of the pressure in lattice systems. <i>Communications in Mathematical Physics</i> , 1971, 23, 169-175.	1.0	71
108	Density of Zeros on the Lee-Yang Circle for Two Ising Ferromagnets. <i>Physical Review Letters</i> , 1971, 27, 1439-1442.	2.9	123

#	ARTICLE	IF	CITATIONS
109	Critical Points in Multicomponent Systems. <i>Physical Review A</i> , 1970, 2, 1047-1064.	1.0	725
110	Correlation-Function Inequality Obtained by Yeh. <i>Physical Review B</i> , 1970, 1, 3883-3883.	1.1	1
111	Concavity of Magnetization of an Ising Ferromagnet in a Positive External Field. <i>Journal of Mathematical Physics</i> , 1970, 11, 790-795.	0.5	207
112	Thermodynamics Near the Two-Fluid Critical Mixing Point in He <sup>3</sup> -He <sup>4</sup> . <i>Physical Review Letters</i> , 1970, 24, 715-717.	2.9	452
113	Dependence of Critical Indices on a Parameter. <i>Physical Review Letters</i> , 1970, 24, 1479-1482.	2.9	289
114	Ferromagnetic Heat Capacity in an External Magnetic Field near the Critical Point. <i>Physical Review</i> , 1969, 188, 942-947.	2.7	25
115	Rigorous Results for Ising Ferromagnets of Arbitrary Spin. <i>Journal of Mathematical Physics</i> , 1969, 10, 1559-1565.	0.5	191
116	Heat Capacity Singularity for a Ferromagnet in a Finite Applied Field. <i>Journal of Applied Physics</i> , 1969, 40, 1542-1543.	1.1	10
117	Nonanalytic Behavior Above the Critical Point in a Random Ising Ferromagnet. <i>Physical Review Letters</i> , 1969, 23, 17-19.	2.9	1,355
118	Free Energy of Interacting Magnetic Dipoles. <i>Physical Review</i> , 1968, 176, 655-659.	2.7	139
119	Thermodynamic Bounds on Constant-Volume Heat Capacities and Adiabatic Compressibilities. <i>Physical Review</i> , 1968, 170, 249-256.	2.7	41
120	Random Spin Systems: Some Rigorous Results. <i>Journal of Mathematical Physics</i> , 1968, 9, 1284-1292.	0.5	73
121	Antiferromagnetic Transition in CoCl <sub>2</sub> ·6H <sub>2</sub> O and Fisher's Relation. <i>Physical Review</i> , 1967, 164, 705-709.	2.7	62
122	Critical Temperatures of Anisotropic Ising Lattices. I. Lower Bounds. <i>Physical Review</i> , 1967, 162, 475-479.	2.7	40
123	Thermodynamic Functions for Fluids and Ferromagnets near the Critical Point. <i>Physical Review</i> , 1967, 158, 176-187.	2.7	389
124	Correlations in Ising Ferromagnets. I. <i>Journal of Mathematical Physics</i> , 1967, 8, 478-483.	0.5	389
125	Correlations in Ising Ferromagnets. II. External Magnetic Fields. <i>Journal of Mathematical Physics</i> , 1967, 8, 484-489.	0.5	226
126	Correlations in Ising ferromagnets. III. <i>Communications in Mathematical Physics</i> , 1967, 6, 121-127.	1.0	95



#	ARTICLE	IF	CITATIONS
127	Relaxation Times for Metastable States in the Mean-Field Model of a Ferromagnet. Physical Review, 1966, 149, 301-305.	2.7	130
128	Power-Series Expansions and Specific-Heat Singularities Near the He4 Critical Point. Physical Review Letters, 1966, 16, 787-788.	2.9	3
129	Spontaneous Magnetization in Idealized Ferromagnets. Physical Review, 1966, 152, 240-246.	2.7	99
130	Microcanonical Ensemble in Quantum Statistical Mechanics. Journal of Mathematical Physics, 1965, 6, 1447-1461.	0.5	88
131	Ferromagnets and Simple Fluids near the Critical Point: Some Thermodynamic Inequalities. Journal of Chemical Physics, 1965, 43, 1958-1968.	1.2	128
132	Thermodynamic Inequality Near the Critical Point for Ferromagnets and Fluids. Physical Review Letters, 1965, 14, 623-624.	2.9	103
133	Evidence for Exchange-Coupled Linear Chains in $\text{Cu}(\text{NH}_3)_4\text{SO}_4 \cdot \text{H}_2\text{O}$ . Physical Review, 1964, 135, A659-A660.	2.7	64
134	A Proof that the Free Energy of a Spin System is Extensive. Journal of Mathematical Physics, 1964, 5, 1215-1222.	0.5	186
135	Peierls Proof of Spontaneous Magnetization in a Two-Dimensional Ising Ferromagnet. Physical Review, 1964, 136, A437-A439.	2.7	216
136	Free Energy of the Antiferromagnetic Linear Chain. Physical Review, 1964, 136, A751-A752.	2.7	9
137	Magnetization Curve at Zero Temperature for the Antiferromagnetic Heisenberg Linear Chain. Physical Review, 1964, 133, A768-A775.	2.7	356