

Reinhard F Werner

List of Publications by Year in descending order

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135
papers

17,818
citations

25014

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docs citations

138
times ranked

6031
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Walks: Schur Functions Meet Symmetry Protected Topological Phases. <i>Communications in Mathematical Physics</i> , 2022, 389, 31-74.	1.0	4
2	Numerical optimization of amplitude-modulated pulses in microwave-driven entanglement generation. <i>Quantum Science and Technology</i> , 2022, 7, 045005.	2.6	0
3	Chiral Floquet Systems and Quantum Walks at Half-Period. <i>Annales Henri Poincare</i> , 2021, 22, 375-413.	0.8	6
4	The Wigner distribution of n arbitrary observables. <i>Journal of Mathematical Physics</i> , 2020, 61, 082103.	0.5	4
5	Quantum walks in external gauge fields. <i>Journal of Mathematical Physics</i> , 2019, 60, 012107.	0.5	29
6	Creating anomalous Floquet Chern insulators with magnetic quantum walks. <i>Physical Review B</i> , 2019, 99, .	1.1	35
7	Uncertainty from Heisenberg to Today. <i>Foundations of Physics</i> , 2019, 49, 460-491.	0.6	23
8	Eigenvalue measurement of topologically protected edge states in split-step quantum walks. <i>New Journal of Physics</i> , 2019, 21, 043031.	1.2	16
9	Sharp uncertainty relations for number and angle. <i>Journal of Mathematical Physics</i> , 2018, 59, .	0.5	4
10	The Topological Classification of One-Dimensional Symmetric Quantum Walks. <i>Annales Henri Poincare</i> , 2018, 19, 325-383.	0.8	38
11	Bounds on the speedup in quantum signaling. <i>Physical Review A</i> , 2017, 95, .	1.0	3
12	State-Independent Uncertainty Relations and Entanglement Detection in Noisy Systems. <i>Physical Review Letters</i> , 2017, 119, 170404.	2.9	39
13	Unbounded Generators of Dynamical Semigroups. <i>Open Systems and Information Dynamics</i> , 2017, 24, 1740015.	0.5	20
14	Measurement Uncertainty for Finite Quantum Observables. <i>Mathematics</i> , 2016, 4, 38.	1.1	12
15	Bulk-edge correspondence of one-dimensional quantum walks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 21LT01.	0.7	49
16	Entanglement distillation using the exchange interaction. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	1
17	Revivals in quantum walks with a quasiperiodically-time-dependent coin. <i>Physical Review A</i> , 2016, 93, .	1.0	17
18	Uncertainty relations for general phase spaces. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	14

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19	Schwartz operators. <i>Reviews in Mathematical Physics</i> , 2016, 28, 1630001.	0.7	20
20	Quantum de Finetti theorems and mean-field theory from quantum phase space representations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 135302.	0.7	3
21	A Quantum Dynamical Approach to Matrix Khrushchev's Formulas. <i>Communications on Pure and Applied Mathematics</i> , 2016, 69, 909-957.	1.2	11
22	Implementation of continuous-variable quantum key distribution with composable and one-sided-device-independent security against coherent attacks. <i>Nature Communications</i> , 2015, 6, 8795.	5.8	175
23	Uncertainty relations for angular momentum. <i>New Journal of Physics</i> , 2015, 17, 093046.	1.2	63
24	Optimality of entropic uncertainty relations. <i>International Journal of Quantum Information</i> , 2015, 13, 1550045.	0.6	15
25	Steering, or maybe why Einstein did not go all the way to Bell's argument. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424008.	0.7	15
26	<i>Colloquium</i> : Quantum root-mean-square error and measurement uncertainty relations. <i>Reviews of Modern Physics</i> , 2014, 86, 1261-1281.	16.4	148
27	Comment on "What Bell did". <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424011.	0.7	26
28	Measurement uncertainty relations. <i>Journal of Mathematical Physics</i> , 2014, 55, .	0.5	57
29	Heisenberg uncertainty for qubit measurements. <i>Physical Review A</i> , 2014, 89, .	1.0	89
30	Recurrence for Discrete Time Unitary Evolutions. <i>Communications in Mathematical Physics</i> , 2013, 320, 543-569.	1.0	81
31	Proof of Heisenberg's Error-Disturbance Relation. <i>Physical Review Letters</i> , 2013, 111, 160405.	2.9	191
32	Propagation of Quantum Walks in Electric Fields. <i>Physical Review Letters</i> , 2013, 111, 160601.	2.9	68
33	A short impossibility proof of quantum bit commitment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1076-1087.	0.9	21
34	Full counting statistics of stationary particle beams. <i>Journal of Mathematical Physics</i> , 2013, 54, 042109.	0.5	0
35	Gaussian entanglement for quantum key distribution from a single-mode squeezing source. <i>New Journal of Physics</i> , 2013, 15, 053049.	1.2	20
36	Electric Quantum Walks with Individual Atoms. <i>Physical Review Letters</i> , 2013, 110, 190601.	2.9	139

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37	Characterization of informational completeness for covariant phase space observables. Journal of Mathematical Physics, 2012, 53, 102103.	0.5	16
38	Molecular binding in interacting quantum walks. New Journal of Physics, 2012, 14, 073050.	1.2	78
39	HOW LONG CAN IT TAKE FOR A QUANTUM CHANNEL TO FORGET EVERYTHING?. International Journal of Quantum Information, 2012, 10, 1250057.	0.6	2
40	Asymptotic behavior of quantum walks with spatio-temporal coin fluctuations. Quantum Information Processing, 2012, 11, 1219-1249.	1.0	38
41	Quantum Walks with Nonorthogonal Position States. Physical Review Letters, 2012, 109, 240503.	2.9	4
42	Continuous Variable Quantum Key Distribution: Finite-Key Analysis of Composable Security against Coherent Attacks. Physical Review Letters, 2012, 109, 100502.	2.9	237
43	Observation of one-way Einstein-Podolsky-Rosen steering. Nature Photonics, 2012, 6, 596-599.	15.6	308
44	Exact energy-time uncertainty relation for arrival time by absorption. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 185301.	0.7	11
45	Index Theory of One Dimensional Quantum Walks and Cellular Automata. Communications in Mathematical Physics, 2012, 310, 419-454.	1.0	101
46	Extremal Quantum Correlations and Cryptographic Security. Physical Review Letters, 2011, 106, 250502.	2.9	17
47	Strong Einstein-Podolsky-Rosen entanglement from a single squeezed light source. Physical Review A, 2011, 83, .	1.0	48
48	Connes' embedding problem and Tsirelson's problem. Journal of Mathematical Physics, 2011, 52, .	0.5	124
49	Unitarity plus causality implies localizability. Journal of Computer and System Sciences, 2011, 77, 372-378.	0.9	64
50	Asymptotic evolution of quantum walks with random coin. Journal of Mathematical Physics, 2011, 52, .	0.5	93
51	Monodromy Analysis of the Computational Power of the Ising Topological Quantum Computer. , 2010, , .		0
52	Verschränkung - Schlüssel zur Quantenwelt. Quanteninformatonstheorie Teil 1: Grundlagen. Physik in Unserer Zeit, 2010, 41, 236-242.	0.0	2
53	Geheime Nachrichten und schnelle Rechner. Quanteninformatonstheorie Teil 2: Anwendungen. Physik in Unserer Zeit, 2010, 41, 292-299.	0.0	2
54	Maximal violation of Bell inequalities by position measurements. Journal of Mathematical Physics, 2010, 51, .	0.5	17

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55	Time asymptotics and entanglement generation of Clifford quantum cellular automata. Journal of Mathematical Physics, 2010, 51, 015203.	0.5	32
56	Quantum Cryptography as a Retrodiction Problem. Physical Review Letters, 2009, 103, 220504.	2.9	14
57	Tunneling Times with Covariant Measurements. Foundations of Physics, 2009, 39, 829-846.	0.6	12
58	Implementation of Clifford gates in the Ising-anyon topological quantum computer. Physical Review A, 2009, 79, .	1.0	34
59	A continuity theorem for Stinespring's dilation. Journal of Functional Analysis, 2008, 255, 1889-1904.	0.7	35
60	The Information-Disturbance Tradeoff and the Continuity of Stinespring's Representation. IEEE Transactions on Information Theory, 2008, 54, 1708-1717.	1.5	69
61	Lower bounds on entanglement measures from incomplete information. Physical Review A, 2008, 77, .	1.0	41
62	ON HAAG DUALITY FOR PURE STATES OF QUANTUM SPIN CHAINS. Reviews in Mathematical Physics, 2008, 20, 707-724.	0.7	5
63	On the structure of Clifford quantum cellular automata. Journal of Mathematical Physics, 2008, 49, 112104.	0.5	28
64	PERMUTATION AND ITS PARTIAL TRANSPOSE. International Journal of Quantum Information, 2007, 05, 469-507.	0.6	15
65	Reexamination of quantum bit commitment: The possible and the impossible. Physical Review A, 2007, 76, .	1.0	73
66	Estimating Entanglement Measures in Experiments. Physical Review Letters, 2007, 98, 110502.	2.9	147
67	Meaner king uses biased bases. Physical Review A, 2007, 75, .	1.0	11
68	Gaussian Quantum Cellular Automata. , 2007, , 85-99.		1
69	Universally Programmable Quantum Cellular Automaton. Physical Review Letters, 2006, 97, 020502.	2.9	32
70	ENTANGLEMENT, HAAG-DUALITY AND TYPE PROPERTIES OF INFINITE QUANTUM SPIN CHAINS. Reviews in Mathematical Physics, 2006, 18, 935-970.	0.7	24
71	Quantum information processing and communication. European Physical Journal D, 2005, 36, 203-228.	0.6	272
72	Iterative Optimization of Quantum Error Correcting Codes. Physical Review Letters, 2005, 94, 080501.	2.9	63

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73	Non-Gaussian Cloning of Quantum Coherent States is Optimal. <i>Physical Review Letters</i> , 2005, 95, 070501.	2.9	138
74	DISTILLABILITY AND POSITIVITY OF PARTIAL TRANSPOSES IN GENERAL QUANTUM FIELD SYSTEMS. <i>Reviews in Mathematical Physics</i> , 2005, 17, 545-576.	0.7	48
75	On the notion of entanglement in Hilbert spaces. <i>Russian Mathematical Surveys</i> , 2005, 60, 359-360.	0.2	35
76	Clean positive operator valued measures. <i>Journal of Mathematical Physics</i> , 2005, 46, 082109.	0.5	64
77	Quantum channels with memory. <i>Physical Review A</i> , 2005, 72, .	1.0	185
78	On quantum error-correction by classical feedback in discrete time. <i>Journal of Mathematical Physics</i> , 2004, 45, 2600-2612.	0.5	34
79	Irreversibility of entanglement distillation for a class of symmetric states. <i>Physical Review A</i> , 2004, 69, .	1.0	13
80	Gaussian entanglement of formation. <i>Physical Review A</i> , 2004, 69, .	1.0	130
81	Tema con variazioni: quantum channel capacity. <i>New Journal of Physics</i> , 2004, 6, 26-26.	1.2	89
82	Entanglement of Formation for Symmetric Gaussian States. <i>Physical Review Letters</i> , 2003, 91, 107901.	2.9	250
83	Quantum lost and found. <i>Journal of Modern Optics</i> , 2003, 50, 915-933.	0.6	95
84	Quantum lost and found. <i>Journal of Modern Optics</i> , 2003, 50, 915-933.	0.6	12
85	Hiding Classical Data in Multipartite Quantum States. <i>Physical Review Letters</i> , 2002, 89, 097905.	2.9	120
86	Asymptotic relative entropy of entanglement for orthogonally invariant states. <i>Physical Review A</i> , 2002, 66, .	1.0	64
87	Semicausal operations are semilocalizable. <i>Europhysics Letters</i> , 2002, 57, 782-788.	0.7	69
88	Counterexample to an additivity conjecture for output purity of quantum channels. <i>Journal of Mathematical Physics</i> , 2002, 43, 4353-4357.	0.5	137
89	Computable measure of entanglement. <i>Physical Review A</i> , 2002, 65, .	1.0	3,613
90	Entanglement properties of the harmonic chain. <i>Physical Review A</i> , 2002, 66, .	1.0	318

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91	How to Correct Small Quantum Errors. Lecture Notes in Physics, 2002, , 263-286.	0.3	6
92	Entanglement measures under symmetry. Physical Review A, 2001, 64, .	1.0	337
93	Estimating the spectrum of a density operator. Physical Review A, 2001, 64, .	1.0	127
94	Separability properties of tripartite states with $U \otimes U \otimes U$ symmetry. Physical Review A, 2001, 63, .	1.0	99
95	Evaluating capacities of bosonic Gaussian channels. Physical Review A, 2001, 63, .	1.0	438
96	All-multipartite Bell-correlation inequalities for two dichotomic observables per site. Physical Review A, 2001, 64, .	1.0	391
97	Bound Entangled Gaussian States. Physical Review Letters, 2001, 86, 3658-3661.	2.9	361
98	Quantum error-correcting codes associated with graphs. Physical Review A, 2001, 65, .	1.0	298
99	All teleportation and dense coding schemes. Journal of Physics A, 2001, 34, 7081-7094.	1.6	212
100	Distillability via Protocols Respecting the Positivity of Partial Transpose. Physical Review Letters, 2001, 87, 257902.	2.9	47
101	Quantum Information Theory "an Invitation. , 2001, , 14-57.		25
102	Bell's inequalities for states with positive partial transpose. Physical Review A, 2000, 61, .	1.0	76
103	Why two qubits are special. Journal of Mathematical Physics, 2000, 41, 6772.	0.5	44
104	Optimal cloning of pure states, testing single clones. Journal of Mathematical Physics, 1999, 40, 3283-3299.	0.5	166
105	Optimal manipulations with qubits: Universal-NOT gate. Physical Review A, 1999, 60, R2626-R2629.	1.0	198
106	Optimal cloning of pure states. Physical Review A, 1998, 58, 1827-1832.	1.0	445
107	Quantum spin chains with quantum group symmetry. Communications in Mathematical Physics, 1996, 174, 477-507.	1.0	18
108	Ergodicity of quantum cellular automata. Journal of Statistical Physics, 1996, 82, 963-998.	0.5	27

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109	Positive Representations of General Commutation Relations Allowing Wick Ordering. Journal of Functional Analysis, 1995, 134, 33-99.	0.7	74
110	On Bell's inequalities and algebraic invariants. Letters in Mathematical Physics, 1995, 33, 321-334.	0.5	26
111	Mixed states with positive Wigner functions. Journal of Mathematical Physics, 1995, 36, 62-75.	0.5	60
112	Coherent states of theq-canonical commutation relations. Communications in Mathematical Physics, 1994, 164, 455-471.	1.0	32
113	Finitely Correlated Pure States. Journal of Functional Analysis, 1994, 120, 511-534.	0.7	75
114	Finitely Correlated Pure States. NATO ASI Series Series B: Physics, 1994, , 193-202.	0.2	10
115	The free quon gas suffers Gibbs' paradox. Physical Review D, 1993, 48, 2929-2934.	1.6	16
116	Abundance of translation invariant pure states on quantum spin chains. Letters in Mathematical Physics, 1992, 25, 249-258.	0.5	42
117	Ground states of VBS models on cayley trees. Journal of Statistical Physics, 1992, 66, 939-973.	0.5	48
118	Finitely correlated states on quantum spin chains. Communications in Mathematical Physics, 1992, 144, 443-490.	1.0	1,028
119	A counterexample in coagulation theory. Journal of Mathematical Physics, 1991, 32, 2276-2278.	0.5	4
120	Valence bond states on quantum spin chains as ground states with spectral gap. Journal of Physics A, 1991, 24, L185-L189.	1.6	46
121	Minimizing the relative entropy in a face. Letters in Mathematical Physics, 1990, 19, 7-14.	0.5	2
122	Remarks on a quantum state extension problem. Letters in Mathematical Physics, 1990, 19, 319-326.	0.5	11
123	Dilations of symmetric operators shifted by a unitary group. Journal of Functional Analysis, 1990, 92, 166-176.	0.7	11
124	The Gibbs Variational Principle for General BCS-Type Models. Europhysics Letters, 1989, 9, 633-638.	0.7	3
125	An application of Bell's inequalities to a quantum state extension problem. Letters in Mathematical Physics, 1989, 17, 359-363.	0.5	66
126	Exact Antiferromagnetic Ground States of Quantum Spin Chains. Europhysics Letters, 1989, 10, 633-637.	0.7	120

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127	Quantum states with Einstein-Podolsky-Rosen correlations admitting a hidden-variable model. Physical Review A, 1989, 40, 4277-4281.	1.0	3,078
128	Wigner quantisation of arrival time and oscillator phase. Journal of Physics A, 1988, 21, 4565-4575.	1.6	23
129	Bell's inequalities and quantum field theory. II. Bell's inequalities are maximally violated in the vacuum. Journal of Mathematical Physics, 1987, 28, 2448-2456.	0.5	100
130	Bell's inequalities and quantum field theory. I. General setting. Journal of Mathematical Physics, 1987, 28, 2440-2447.	0.5	182
131	Maximal violation of Bell's inequalities is generic in quantum field theory. Communications in Mathematical Physics, 1987, 110, 247-259.	1.0	124
132	Screen observables in relativistic and nonrelativistic quantum mechanics. Journal of Mathematical Physics, 1986, 27, 793-803.	0.5	82
133	The vacuum violates Bell's inequalities. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 110, 257-259.	0.9	161
134	Quantum harmonic analysis on phase space. Journal of Mathematical Physics, 1984, 25, 1404-1411.	0.5	104
135	Complete homotopy invariants for translation invariant symmetric quantum walks on a chain. Quantum - the Open Journal for Quantum Science, 0, 2, 95.	0.0	21