

# Ryszard Horodecki

## List of Publications by Year in descending order

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54  
papers

16,298  
citations

147566

31  
h-index

174990

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

5735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum entanglement. <i>Reviews of Modern Physics</i> , 2009, 81, 865-942.	16.4	6,975
2	Separability of mixed states: necessary and sufficient conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 223, 1-8.	0.9	3,050
3	Mixed-State Entanglement and Distillation: Is there a "Bound" Entanglement in Nature?. <i>Physical Review Letters</i> , 1998, 80, 5239-5242.	2.9	942
4	General teleportation channel, singlet fraction, and quasidistillation. <i>Physical Review A</i> , 1999, 60, 1888-1898.	1.0	713
5	Thermodynamical Approach to Quantifying Quantum Correlations. <i>Physical Review Letters</i> , 2002, 89, 180402.	2.9	442
6	Information-theoretic aspects of inseparability of mixed states. <i>Physical Review A</i> , 1996, 54, 1838-1843.	1.0	419
7	Local versus nonlocal information in quantum-information theory: Formalism and phenomena. <i>Physical Review A</i> , 2005, 71, .	1.0	389
8	No-Local-Broadcasting Theorem for Multipartite Quantum Correlations. <i>Physical Review Letters</i> , 2008, 100, 090502.	2.9	361
9	Inseparable Two Spin-1/2 Density Matrices Can Be Distilled to a Singlet Form. <i>Physical Review Letters</i> , 1997, 78, 574-577.	2.9	345
10	Bound Entanglement Can Be Activated. <i>Physical Review Letters</i> , 1999, 82, 1056-1059.	2.9	292
11	Dynamics of quantum entanglement. <i>Physical Review A</i> , 2001, 65, .	1.0	285
12	Limits for Entanglement Measures. <i>Physical Review Letters</i> , 2000, 84, 2014-2017.	2.9	283
13	Teleportation, Bell's inequalities and inseparability. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 222, 21-25.	0.9	190
14	Separability of n-particle mixed states: necessary and sufficient conditions in terms of linear maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 283, 1-7.	0.9	143
15	Local environment can enhance fidelity of quantum teleportation. <i>Physical Review A</i> , 2000, 62, .	1.0	140
16	Local Information as a Resource in Distributed Quantum Systems. <i>Physical Review Letters</i> , 2003, 90, 100402.	2.9	135
17	Thermodynamics of Quantum Information Systems " Hamiltonian Description. <i>Open Systems and Information Dynamics</i> , 2004, 11, 205-217.	0.5	96
18	Are the Laws of Entanglement Theory Thermodynamical?. <i>Physical Review Letters</i> , 2002, 89, 240403.	2.9	83

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19	Dynamical description of quantum computing: Generic nonlocality of quantum noise. Physical Review A, 2002, 65, .	1.0	82
20	Universal Quantum Information Compression. Physical Review Letters, 1998, 81, 1714-1717.	2.9	79
21	Separability of Mixed Quantum States: Linear Contractions and Permutation Criteria. Open Systems and Information Dynamics, 2006, 13, 103-111.	0.5	78
22	Postulates for measures of genuine multipartite correlations. Physical Review A, 2011, 83, .	1.0	67
23	Irreversibility for All Bound Entangled States. Physical Review Letters, 2005, 95, 190501.	2.9	66
24	Entanglement processing and statistical inference: The Jaynes principle can produce fake entanglement. Physical Review A, 1999, 59, 1799-1803.	1.0	62
25	Inseparability criteria based on matrices of moments. Physical Review A, 2009, 80, .	1.0	60
26	Binding entanglement channels. Journal of Modern Optics, 2000, 47, 347-354.	0.6	58
27	Unified Approach to Quantum Capacities: Towards Quantum Noisy Coding Theorem. Physical Review Letters, 2000, 85, 433-436.	2.9	52
28	Optimal strategy for a single-qubit gate and the trade-off between opposite types of decoherence. Physical Review A, 2004, 70, .	1.0	51
29	Concurrence in arbitrary dimensions. Journal of Modern Optics, 2002, 49, 1289-1297.	0.6	46
30	Mutually exclusive aspects of information carried by physical systems: Complementarity between local and nonlocal information. Physical Review A, 2003, 68, .	1.0	38
31	Asymptotic Manipulations of Entanglement Can Exhibit Genuine Irreversibility. Physical Review Letters, 2000, 84, 4260-4263.	2.9	33
32	Informationally coherent quantum systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 145-150.	0.9	26
33	Are there basic laws of quantum information processing?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 473-481.	0.9	25
34	Can Communication Power of Separable Correlations Exceed That of Entanglement Resource?. Physical Review Letters, 2014, 112, 140507.	2.9	21
35	Common Origin of No-Cloning and No-Deleting Principles Conservation of Information. Foundations of Physics, 2005, 35, 2041-2049.	0.6	19
36	Balance of information in bipartite quantum-communication systems: Entanglement-energy analogy. Physical Review A, 2001, 63, .	1.0	18

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37	Generalized quantum measurements and local realism. <i>Physical Review A</i> , 1998, 58, 1694-1698.	1.0	17
38	QUANTUMNESS OF ENSEMBLE FROM NO-BROADCASTING PRINCIPLE. <i>International Journal of Quantum Information</i> , 2006, 04, 105-118.	0.6	16
39	Conjectured strong complementary-correlations tradeoff. <i>Physical Review A</i> , 2013, 88, .	1.0	15
40	Activating Hidden Metrological Usefulness. <i>Physical Review Letters</i> , 2020, 125, 020402.	2.9	14
41	Einstein-Podolsky-Rosen paradox without entanglement. <i>Physical Review A</i> , 1999, 60, 4144-4145.	1.0	13
42	Are There Phase Transitions in Information Space?. <i>Physical Review Letters</i> , 2003, 90, 010404.	2.9	9
43	Separability in terms of a single entanglement witness. <i>Physical Review A</i> , 2013, 88, .	1.0	9
44	Nonsignaling quantum random access-code boxes. <i>Physical Review A</i> , 2015, 92, .	1.0	8
45	Publisher's Note: No-Local-Broadcasting Theorem for Multipartite Quantum Correlations [ <i>Phys. Rev. Lett.</i> 100, 090502 (2008)]. <i>Physical Review Letters</i> , 2008, 100, .	2.9	5
46	Measurement uncertainty from no-signaling and nonlocality. <i>Physical Review A</i> , 2017, 96, .	1.0	5
47	Do black holes create polyamory?. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	5
48	Closed timelike curves and the second law of thermodynamics. <i>Physical Review A</i> , 2019, 99, .	1.0	4
49	Binding entanglement channels. , 0, .		4
50	Entanglement-swapping boxes and their communication properties. <i>Physical Review A</i> , 2008, 77, .	1.0	3
51	Intrinsic asymmetry with respect to adversary: a new feature of Bell inequalities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424016.	0.7	2
52	Zero-knowledge convincing protocol on quantum bit is impossible. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 1, 41.	0.0	2
53	Non-Perfect Propagation of Information to a Noisy Environment with Self-Evolution. <i>Entropy</i> , 2022, 24, 467.	1.1	1
54	Entanglement-redistribution boxes. <i>Physical Review A</i> , 2008, 78, .	1.0	0