

# Jonathan Barrett

## List of Publications by Year in descending order

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42  
papers

4,409  
citations

236833

25  
h-index

315616

38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1678  
citing authors

#	ARTICLE	IF	CITATIONS
1	No Signaling and Quantum Key Distribution. <i>Physical Review Letters</i> , 2005, 95, 010503.	2.9	656
2	On the reality of the quantum state. <i>Nature Physics</i> , 2012, 8, 475-478.	6.5	497
3	Information processing in generalized probabilistic theories. <i>Physical Review A</i> , 2007, 75, .	1.0	483
4	Nonlocal correlations as an information-theoretic resource. <i>Physical Review A</i> , 2005, 71, .	1.0	434
5	Generalized No-Broadcasting Theorem. <i>Physical Review Letters</i> , 2007, 99, 240501.	2.9	198
6	Nonsequential positive-operator-valued measurements on entangled mixed states do not always violate a Bell inequality. <i>Physical Review A</i> , 2002, 65, .	1.0	192
7	Many Worlds?. , 2010, , .		153
8	Maximally Nonlocal and Monogamous Quantum Correlations. <i>Physical Review Letters</i> , 2006, 97, 170409.	2.9	145
9	Definitions of multipartite nonlocality. <i>Physical Review A</i> , 2013, 88, .	1.0	138
10	Quantum Common Causes and Quantum Causal Models. <i>Physical Review X</i> , 2017, 7, .	2.8	124
11	Distinct Quantum States Can Be Compatible with a Single State of Reality. <i>Physical Review Letters</i> , 2012, 109, 150404.	2.9	110
12	Popescu-Rohrlich Correlations as a Unit of Nonlocality. <i>Physical Review Letters</i> , 2005, 95, 140401.	2.9	109
13	Memory Attacks on Device-Independent Quantum Cryptography. <i>Physical Review Letters</i> , 2013, 110, 010503.	2.9	108
14	How Much Measurement Independence Is Needed to Demonstrate Nonlocality?. <i>Physical Review Letters</i> , 2011, 106, 100406.	2.9	107
15	Noise Robustness of the Nonlocality of Entangled Quantum States. <i>Physical Review Letters</i> , 2007, 99, 040403.	2.9	101
16	No $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Epistemic Model Can Fully Explain the Indistinguishability of Quantum States. <i>Physical Review Letters</i> , 2014, 112, 250403.	2.9	99
17	Entropy and information causality in general probabilistic theories. <i>New Journal of Physics</i> , 2010, 12, 033024.	1.2	90
18	Quantum nonlocality, Bell inequalities, and the memory loophole. <i>Physical Review A</i> , 2002, 66, .	1.0	67

#	ARTICLE	IF	CITATIONS
19	Limits on nonlocal correlations from the structure of the local state space. <i>New Journal of Physics</i> , 2011, 13, 063024.	1.2	58
20	Can different quantum state vectors correspond to the same physical state? An experimental test. <i>New Journal of Physics</i> , 2016, 18, 013007.	1.2	54
21	Unconditionally secure device-independent quantum key distribution with only two devices. <i>Physical Review A</i> , 2012, 86, .	1.0	53
22	Non-contextuality, finite precision measurement and the Kochenâ€“Specker theorem. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2004, 35, 151-176.	1.4	42
23	Strong nonlocality: a trade-off between states and measurements. <i>New Journal of Physics</i> , 2010, 12, 033034.	1.2	42
24	Cyclic quantum causal models. <i>Nature Communications</i> , 2021, 12, 885.	5.8	36
25	Full Security of Quantum Key Distribution From No-Signaling Constraints. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 4973-4986.	1.5	34
26	Computation in generalised probabilistic theories. <i>New Journal of Physics</i> , 2015, 17, 083001.	1.2	31
27	Can a quantum state over time resemble a quantum state at a single time?. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170395.	1.0	31
28	Thermodynamics and the structure of quantum theory. <i>New Journal of Physics</i> , 2017, 19, 043025.	1.2	28
29	Quantum coin tossing and bit-string generation in the presence of noise. <i>Physical Review A</i> , 2004, 69, .	1.0	23
30	Certified Quantum Random Numbers from Untrusted Light. <i>Physical Review X</i> , 2020, 10, .	2.8	23
31	Modeling Pauli measurements on graph states with nearest-neighbor classical communication. <i>Physical Review A</i> , 2007, 75, .	1.0	16
32	The computational landscape of general physical theories. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	16
33	The de Finetti theorem for test spaces. <i>New Journal of Physics</i> , 2009, 11, 033024.	1.2	15
34	Entropy, majorization and thermodynamics in general probabilistic theories. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 195, 43-58.	0.8	14
35	Implications of teleportation for nonlocality. <i>Physical Review A</i> , 2001, 64, .	1.0	13
36	Security of quantum bit-string generation. <i>Physical Review A</i> , 2004, 70, .	1.0	11

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37	Entropy and information causality in general probabilistic theories. <i>New Journal of Physics</i> , 2012, 14, 129401.	1.2	11
38	Routed quantum circuits. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 503.	0.0	8
39	Causal and compositional structure of unitary transformations. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 511.	0.0	7
40	Countering quantum noise with supplementary classical information. <i>Physical Review A</i> , 2003, 68, .	1.0	3
41	Simple communication complexity separation from quantum state antidistinguishability. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
42	Reply to "Testing the reality of the quantum state". <i>Nature Physics</i> , 2014, 10, 174-175.	6.5	0