

Daniel Cavalcanti

List of Publications by Year in descending order

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94
papers

6,154
citations

126907

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docs citations

95
times ranked

2681
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement-Device-Independent Entanglement Detection for Continuous-Variable Systems. <i>Physical Review Letters</i> , 2021, 126, 190502.	7.8	6
2	Experimental Robust Self-Testing of the State Generated by a Quantum Network. <i>PRX Quantum</i> , 2021, 2, .	9.2	14
3	Satellite-Based Photonic Quantum Networks Are Small-World. <i>PRX Quantum</i> , 2021, 2, .	9.2	22
4	High-speed batch processing of semidefinite programs with feedforward neural networks. <i>New Journal of Physics</i> , 2021, 23, 103034.	2.9	2
5	Verification of joint measurability using phase-space quasiprobability distributions. <i>Physical Review A</i> , 2021, 104, .	2.5	3
6	A neural network oracle for quantum nonlocality problems in networks. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	33
7	Statistical Properties of the Quantum Internet. <i>Physical Review Letters</i> , 2020, 124, 210501.	7.8	31
8	Experimental device-independent certified randomness generation with an instrumental causal structure. <i>Communications Physics</i> , 2020, 3, .	5.3	17
9	Multi-core fiber integrated multi-port beam splitters for quantum information processing. <i>Optica</i> , 2020, 7, 542.	9.3	38
10	Device-Independent Tests of Structures of Measurement Incompatibility. <i>Physical Review Letters</i> , 2019, 123, 180401.	7.8	9
11	Enhanced Multiqubit Phase Estimation in Noisy Environments by Local Encoding. <i>Physical Review Letters</i> , 2019, 123, 180503.	7.8	10
12	Bounding the Sets of Classical and Quantum Correlations in Networks. <i>Physical Review Letters</i> , 2019, 123, 140503.	7.8	35
13	Methods to estimate entanglement in teleportation experiments. <i>Physical Review A</i> , 2019, 99, .	2.5	15
14	Experimental investigation of partially entangled states for device-independent randomness generation and self-testing protocols. <i>Physical Review A</i> , 2019, 99, .	2.5	21
15	All Sets of Incompatible Measurements give an Advantage in Quantum State Discrimination. <i>Physical Review Letters</i> , 2019, 122, 130403.	7.8	74
16	Experimental nonlocality-based randomness generation with nonprojective measurements. <i>Physical Review A</i> , 2018, 97, .	2.5	26
17	Frequency-bin entanglement of ultra-narrow band non-degenerate photon pairs. <i>Quantum Science and Technology</i> , 2018, 3, 014007.	5.8	19
18	Split, but still attached. <i>Science</i> , 2018, 360, 376-377.	12.6	2

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19	Experimental Study of Nonclassical Teleportation Beyond Average Fidelity. <i>Physical Review Letters</i> , 2018, 121, 140501.	7.8	9
20	Self-testing of Pauli observables for device-independent entanglement certification. <i>Physical Review A</i> , 2018, 98, .	2.5	26
21	Device-Independent Entanglement Certification of All Entangled States. <i>Physical Review Letters</i> , 2018, 121, 180503.	7.8	43
22	Maximal Randomness Generation from Steering Inequality Violations Using Qudits. <i>Physical Review Letters</i> , 2018, 120, 260401.	7.8	62
23	Quantum steering: a review with focus on semidefinite programming. <i>Reports on Progress in Physics</i> , 2017, 80, 024001.	20.1	293
24	Measurement-device-independent entanglement and randomness estimation in quantum networks. <i>Physical Review A</i> , 2017, 95, .	2.5	28
25	Most incompatible measurements for robust steering tests. <i>Physical Review A</i> , 2017, 96, .	2.5	33
26	All Entangled States can Demonstrate Nonclassical Teleportation. <i>Physical Review Letters</i> , 2017, 119, 110501.	7.8	57
27	Experimental multipartite entanglement and randomness certification of the W state in the quantum steering scenario. <i>Quantum Science and Technology</i> , 2017, 2, 015011.	5.8	18
28	Efficient Device-Independent Entanglement Detection for Multipartite Systems. <i>Physical Review X</i> , 2017, 7, .	8.9	32
29	Necessary detection efficiencies for secure quantum key distribution and bound randomness. <i>Physical Review A</i> , 2016, 93, .	2.5	16
30	Quantitative relations between measurement incompatibility, quantum steering, and nonlocality. <i>Physical Review A</i> , 2016, 93, .	2.5	69
31	General Method for Constructing Local Hidden Variable Models for Entangled Quantum States. <i>Physical Review Letters</i> , 2016, 117, 190401.	7.8	60
32	Loss-tolerant Einstein-Podolsky-Rosen steering for arbitrary-dimensional states: Joint measurability and unbounded violations under losses. <i>Physical Review A</i> , 2015, 92, .	2.5	34
33	Postquantum Steering. <i>Physical Review Letters</i> , 2015, 115, 190403.	7.8	48
34	Hierarchy of Steering Criteria Based on Moments for All Bipartite Quantum Systems. <i>Physical Review Letters</i> , 2015, 115, 210401.	7.8	96
35	Inequivalence of entanglement, steering, and Bell nonlocality for general measurements. <i>Physical Review A</i> , 2015, 92, .	2.5	165
36	Optimal randomness certification in the quantum steering and prepare-and-measure scenarios. <i>New Journal of Physics</i> , 2015, 17, 113010.	2.9	78

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37	Optimal randomness generation from optical Bell experiments. <i>New Journal of Physics</i> , 2015, 17, 022003.	2.9	5
38	Publisher's Note: Detecting nonlocality of noisy multipartite states with the Clauser-Horne-Shimony-Holt inequality [<i>Phys. Rev. A</i> 89, 042106 (2014)]. <i>Physical Review A</i> , 2015, 91, .	2.5	0
39	Detection of entanglement in asymmetric quantum networks and multipartite quantum steering. <i>Nature Communications</i> , 2015, 6, 7941.	12.8	137
40	Nonlocal correlations in the star-network configuration. <i>Physical Review A</i> , 2014, 90, .	2.5	98
41	Bell nonlocality. <i>Reviews of Modern Physics</i> , 2014, 86, 419-478.	45.6	1,792
42	Linear-Optical Simulation of the Cooling of a Cluster-State Hamiltonian System. <i>Physical Review Letters</i> , 2014, 112, 160501.	7.8	9
43	Publisher's Note: Bell nonlocality [<i>Rev. Mod. Phys.</i> 86, 419 (2014)]. <i>Reviews of Modern Physics</i> , 2014, 86, 839-840.	45.6	53
44	Detecting nonlocality of noisy multipartite states with the Clauser-Horne-Shimony-Holt inequality. <i>Physical Review A</i> , 2014, 89, .	2.5	15
45	Quantifying Einstein-Podolsky-Rosen Steering. <i>Physical Review Letters</i> , 2014, 112, 180404.	7.8	295
46	Realistic loophole-free Bell test with atom-photon entanglement. <i>Nature Communications</i> , 2013, 4, 2104.	12.8	18
47	All quantum states useful for teleportation are nonlocal resources. <i>Physical Review A</i> , 2013, 87, .	2.5	57
48	Distribution of entanglement in large-scale quantum networks. <i>Reports on Progress in Physics</i> , 2013, 76, 096001.	20.1	68
49	Analysis of a proposal for a realistic loophole-free Bell test with atom-light entanglement. <i>Physical Review A</i> , 2013, 88, .	2.5	2
50	Maximal violations and efficiency requirements for Bell tests with photodetection and homodyne measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 215308.	2.1	16
51	Information-causality and extremal tripartite correlations. <i>New Journal of Physics</i> , 2012, 14, 013061.	2.9	28
52	Multipartite quantum nonlocality under local decoherence. <i>Physical Review A</i> , 2012, 86, .	2.5	29
53	Nonlocality Tests Enhanced by a Third Observer. <i>Physical Review Letters</i> , 2012, 108, 040402.	7.8	27
54	Tests of Bell inequality with arbitrarily low photodetection efficiency and homodyne measurements. <i>Physical Review A</i> , 2012, 86, .	2.5	11

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55	Long-distance entanglement generation with scalable and robust two-dimensional quantum network. Physical Review A, 2012, 85, .	2.5	6
56	Bell tests for continuous-variable systems using hybrid measurements and heralded amplifiers. Physical Review A, 2012, 85, .	2.5	25
57	Quantum networks reveal quantum nonlocality. Nature Communications, 2011, 2, 184.	12.8	93
58	Device-Independent Certification of Entangled Measurements. Physical Review Letters, 2011, 107, 050502.	7.8	61
59	QUANTUM LOCKING OF CLASSICAL CORRELATIONS AND QUANTUM DISCORD OF CLASSICAL-QUANTUM STATES. International Journal of Quantum Information, 2011, 09, 1643-1651.	1.1	40
60	Bound Nonlocality and Activation. Physical Review Letters, 2011, 106, 020402.	7.8	40
61	Large violation of Bell inequalities using both particle and wave measurements. Physical Review A, 2011, 84, .	2.5	29
62	Operational interpretations of quantum discord. Physical Review A, 2011, 83, .	2.5	306
63	Physically realizable entanglement by local continuous measurements. Physical Review A, 2011, 83, .	2.5	17
64	Comment on "Loophole-Free Bell Test for Continuous Variables via Wave and Particle Correlations". Physical Review Letters, 2011, 106, 208901; author reply 208902.	7.8	6
65	Large violation of Bell inequalities using both particle and wave measurements. , 2011, , .		0
66	Almost all quantum states have nonclassical correlations. Physical Review A, 2010, 81, .	2.5	435
67	Perfect Quantum Privacy Implies Nonlocality. Physical Review Letters, 2010, 104, 230401.	7.8	16
68	Multipartite fully nonlocal quantum states. Physical Review A, 2010, 81, .	2.5	29
69	Multipartite entanglement percolation. Physical Review A, 2010, 81, .	2.5	27
70	Macroscopic bound entanglement in thermal graph states. New Journal of Physics, 2010, 12, 025011.	2.9	16
71	Unified Framework for Correlations in Terms of Local Quantum Observables. Physical Review Letters, 2010, 104, 140404.	7.8	62
72	Protection of quantum information and optimal singlet conversion through higher-dimensional quantum systems and environment monitoring. Physical Review A, 2010, 81, .	2.5	14

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73	Noisy evolution of graph-state entanglement. <i>Physical Review A</i> , 2010, 82, .	2.5	37
74	Macroscopically local correlations can violate information causality. <i>Nature Communications</i> , 2010, 1, 136.	12.8	27
75	Open-System Dynamics of Graph-State Entanglement. <i>Physical Review Letters</i> , 2009, 103, 030502.	7.8	48
76	Scalability of Greenberger-Horne-Zeilinger and random-state entanglement in the presence of decoherence. <i>Physical Review A</i> , 2009, 79, .	2.5	35
77	Scaling Laws for the Decay of Multiqubit Entanglement. <i>Physical Review Letters</i> , 2008, 100, 080501.	7.8	195
78	Quantum Nonlocality and Partial Transposition for Continuous-Variable Systems. <i>Physical Review Letters</i> , 2008, 101, 040404.	7.8	25
79	Geometrically induced singular behavior of entanglement. <i>Physical Review A</i> , 2008, 78, .	2.5	2
80	Distillable entanglement and area laws in spin and harmonic-oscillator systems. <i>Physical Review A</i> , 2008, 78, .	2.5	34
81	Thermal Bound Entanglement in Macroscopic Systems and Area Law. <i>Physical Review Letters</i> , 2008, 100, 080502.	7.8	52
82	Useful entanglement from the Pauli principle. <i>Physical Review B</i> , 2007, 76, .	3.2	29
83	Multipartite entanglement of superpositions. <i>Physical Review A</i> , 2007, 76, .	2.5	16
84	Estimating entanglement of unknown states. <i>Applied Physics Letters</i> , 2006, 89, 084102.	3.3	24
85	Entanglement versus energy in the entanglement transfer problem. <i>Physical Review A</i> , 2006, 74, .	2.5	36
86	Entanglement quantifiers, entanglement crossover and phase transitions. <i>New Journal of Physics</i> , 2006, 8, 260-260.	2.9	3
87	Connecting the generalized robustness and the geometric measure of entanglement. <i>Physical Review A</i> , 2006, 73, .	2.5	35
88	Tomographic characterization of three-qubit pure states with only two-qubit detectors. <i>Physical Review A</i> , 2005, 71, .	2.5	5
89	Are all maximally entangled states pure?. <i>Physical Review A</i> , 2005, 72, .	2.5	28
90	Increasing identical particle entanglement by fuzzy measurements. <i>Physical Review A</i> , 2005, 72, .	2.5	18

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91	Device-independent certification of tensor products of quantum states using single-copy self-testing protocols. Quantum - the Open Journal for Quantum Science, 0, 5, 418.	0.0	6
92	Single-copy activation of Bell nonlocality via broadcasting of quantum states. Quantum - the Open Journal for Quantum Science, 0, 5, 499.	0.0	4
93	Causal hierarchy of multipartite Bell nonlocality. Quantum - the Open Journal for Quantum Science, 0, 1, 23.	0.0	32
94	Device-independent quantum key distribution with single-photon sources. Quantum - the Open Journal for Quantum Science, 0, 4, 260.	0.0	35