Paul Skrzypczyk

List of Publications by Year
in descending order

64 papers	5,028 citations	126907 33 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	2994 citing authors

#	Article	IF	Citations
1	Characterization of Quantum Betting Tasks in Terms of Arimoto Mutual Information. PRX Quantum, 2022, 3, .	9.2	1
2	Predictably random. Nature Physics, 2021, 17, 431-432.	16.7	2
3	All States are Universal Catalysts in Quantum Thermodynamics. Physical Review X, 2021, 11, .	8.9	17
4	Operational Significance of the Quantum Resource Theory of Buscemi Nonlocality. PRX Quantum, 2021, 2, .	9.2	5
5	Catalytic Quantum Teleportation. Physical Review Letters, 2021, 127, 080502.	7.8	24
6	Network Quantum Steering. Physical Review Letters, 2021, 127, 170405.	7.8	22
7	Bipartite Postquantum Steering in Generalized Scenarios. Physical Review Letters, 2020, 125, 050404.	7.8	13
8	Operational Interpretation of Weight-Based Resource Quantifiers in Convex Quantum Resource Theories. Physical Review Letters, 2020, 125, 110401.	7.8	28
9	Operational advantages provided by nonclassical teleportation. Physical Review Research, 2020, 2, .	3.6	12
10	Complexity of compatible measurements. Physical Review Research, 2020, 2, .	3.6	4
11	Multiobject operational tasks for convex quantum resource theories of state-measurement pairs. Physical Review Research, 2020, 2, .	3.6	10
12	Multi-core fiber integrated multi-port beam splitters for quantum information processing. Optica, 2020, 7, 542.	9.3	38
13	Methods to estimate entanglement in teleportation experiments. Physical Review A, 2019, 99, .	2.5	15
14	Robustness of Measurement, Discrimination Games, and Accessible Information. Physical Review Letters, 2019, 122, 140403.	7.8	57
15	All Sets of Incompatible Measurements give an Advantage in Quantum State Discrimination. Physical Review Letters, 2019, 122, 130403.	7.8	74
16	Quantifying Measurement Incompatibility of Mutually Unbiased Bases. Physical Review Letters, 2019, 122, 050402.	7.8	46
17	Multidimensional quantum entanglement with large-scale integrated optics. Science, 2018, 360, 285-291.	12.6	554
18	A formalism for steering with local quantum measurements. New Journal of Physics, 2018, 20, 083040.	2.9	13

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19	Experimental Study of Nonclassical Teleportation Beyond Average Fidelity. Physical Review Letters, 2018, 121, 140501.	7.8	9
20	Maximal Randomness Generation from Steering Inequality Violations Using Qudits. Physical Review Letters, 2018, 120, 260401.	7.8	62
21	Quantum steering: a review with focus on semidefinite programming. Reports on Progress in Physics, 2017, 80, 024001.	20.1	293
22	Measurement-device-independent entanglement and randomness estimation in quantum networks. Physical Review A, 2017, 95, .	2.5	28
23	All Entangled States can Demonstrate Nonclassical Teleportation. Physical Review Letters, 2017, 119, 110501.	7.8	57
24	Experimental multipartite entanglement and randomness certification of the W state in the quantum steering scenario. Quantum Science and Technology, 2017, 2, 015011.	5.8	18
25	Connecting processes with indefinite causal order and multi-time quantum states. New Journal of Physics, 2017, 19, 103022.	2.9	24
26	Thermodynamics of quantum systems with multiple conserved quantities. Nature Communications, 2016, 7, 12049.	12.8	82
27	Adjusting inequalities for detection-loophole-free steering experiments. Physical Review A, 2016, 94, .	2.5	5
28	Classical communication cost of quantum steering. Physical Review A, 2016, 94, .	2.5	16
29	Performance of autonomous quantum thermal machines: Hilbert space dimension as a thermodynamical resource. Physical Review E, 2016, 94, 032120.	2.1	50
30	Necessary detection efficiencies for secure quantum key distribution and bound randomness. Physical Review A, 2016, 93, .	2.5	16
31	Quantitative relations between measurement incompatibility, quantum steering, and nonlocality. Physical Review A, 2016, 93, .	2.5	69
32	General Method for Constructing Local Hidden Variable Models for Entangled Quantum States. Physical Review Letters, 2016, 117, 190401.	7.8	60
33	The role of quantum information in thermodynamicsâ€”a topical review. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 143001.	2.1	640
34	Loss-tolerant Einstein-Podolsky-Rosen steering for arbitrary-dimensional states: Joint measurability and unbounded violations under losses. Physical Review A, 2015, 92, .	2.5	34
35	Small quantum absorption refrigerator with reversed couplings. Physical Review E, 2015, 92, 012136.	2.1	33
36	Most energetic passive states. Physical Review E, 2015, 92, 042147.	2.1	38

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37	Postquantum Steering. Physical Review Letters, 2015, 115, 190403.	7.8	48
38	Hierarchy of Steering Criteria Based on Moments for All Bipartite Quantum Systems. Physical Review Letters, 2015, 115, 210401.	7.8	96
39	Optimal randomness certification in the quantum steering and prepare-and-measure scenarios. New Journal of Physics, 2015, 17, 113010.	2.9	78
40	Taming catalysts in quantum thermodynamics. New Journal of Physics, 2015, 17, 081003.	2.9	0
41	Passivity, complete passivity, and virtual temperatures. Physical Review E, 2015, 91, 052133.	2.1	44
42	Extractable Work from Correlations. Physical Review X, 2015, 5, .	8.9	143
43	Optimal randomness generation from optical Bell experiments. New Journal of Physics, 2015, 17, 022003.	2.9	5
44	Detection of entanglement in asymmetric quantum networks and multipartite quantum steering. Nature Communications, 2015, 6, 7941.	12.8	137
45	Thermodynamic cost of creating correlations. New Journal of Physics, 2015, 17, 065008.	2.9	68
46	Dimension of physical systems, information processing, and thermodynamics. New Journal of Physics, 2014, 16, 123050.	2.9	20
47	Entanglement enhances cooling in microscopic quantum refrigerators. Physical Review E, 2014, 89, 032115.	2.1	160
48	Nonlocal correlations in the star-network configuration. Physical Review A, 2014, 90, .	2.5	98
49	Work extraction and thermodynamics for individual quantum systems. Nature Communications, 2014, 5, 4185.	12.8	297
50	Quantifying Einstein-Podolsky-Rosen Steering. Physical Review Letters, 2014, 112, 180404.	7.8	295
51	Quantum Cheshire Cats. New Journal of Physics, 2013, 15, 113015.	2.9	130
52	Virtual qubits, virtual temperatures, and the foundations of thermodynamics. Physical Review E, 2012, 85, 051117.	2.1	159
53	Physics within a quantum reference frame. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 145304.	2.1	58
54	Bound Nonlocality and Activation. Physical Review Letters, 2011, 106, 020402.	7.8	40

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55	Large violation of Bell inequalities using both particle andwave measurements. Physical Review A, 2011, 84, .	2.5	29
56	The smallest refrigerators can reach maximal efficiency. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 492002.	2.1	92
57	How Small Can Thermal Machines Be? The Smallest Possible Refrigerator. Physical Review Letters, 2010, 105, 130401.	7.8	325
58	Emergence of Quantum Correlations from Nonlocality Swapping. Physical Review Letters, 2009, 102, 110402.	7.8	33
59	Nonlocality Distillation and Postquantum Theories with Trivial Communication Complexity. Physical Review Letters, 2009, 102, 160403.	7.8	94
60	Couplers for non-locality swapping. New Journal of Physics, 2009, 11, 073014.	2.9	13
61	Closed sets of nonlocal correlations. Physical Review A, 2009, 80, .	2.5	58
62	Exploring the limits of no backwards in time signalling. Quantum - the Open Journal for Quantum Science, 0, 3, 211.	0.0	4
63	Device-independent quantum key distribution with single-photon sources. Quantum - the Open Journal for Quantum Science, 0, 4, 260.	0.0	35
64	Causality: relaxing before exploring. , 0, 1, 3.		0