

Tamás Vártesi

List of Publications by Year in descending order

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104
papers

3,458
citations

117571

34
h-index

161767

54
g-index

104
all docs

104
docs citations

104
times ranked

1547
citing authors

#	ARTICLE	IF	CITATIONS
1	Bound entangled singlet-like states for quantum metrology. <i>Physical Review Research</i> , 2021, 3, .	1.3	5
2	Cyclic Einstein-Podolsky-Rosen steering. <i>Physical Review Research</i> , 2021, 3, .	1.3	4
3	Activating hidden metrological usefulness. , 2021, , .		0
4	Self-testing nonprojective quantum measurements in prepare-and-measure experiments. <i>Science Advances</i> , 2020, 6, eaaw6664.	4.7	45
5	Activating Hidden Metrological Usefulness. <i>Physical Review Letters</i> , 2020, 125, 020402.	2.9	14
6	Strength and typicality of nonlocality in multisetting and multipartite Bell scenarios. <i>Physical Review A</i> , 2020, 101, .	1.0	5
7	Class of genuinely high-dimensionally-entangled states with a positive partial transpose. <i>Physical Review A</i> , 2019, 100, .	1.0	4
8	k -uniform mixed states. <i>Physical Review A</i> , 2019, 100, .	1.0	7
9	Disproving hidden variable models with spin magnitude conservation. <i>Communications Physics</i> , 2019, 2, .	2.0	0
10	Geometry of the set of quantum correlations. <i>Physical Review A</i> , 2018, 97, .	1.0	71
11	Quantum States with a Positive Partial Transpose are Useful for Metrology. <i>Physical Review Letters</i> , 2018, 120, 020506.	2.9	36
12	Observation of Stronger-than-Binary Correlations with Entangled Photonic Qutrits. <i>Physical Review Letters</i> , 2018, 120, 180402.	2.9	18
13	Self-testing quantum states and measurements in the prepare-and-measure scenario. <i>Physical Review A</i> , 2018, 98, .	1.0	75
14	Survey on the Bell nonlocality of a pair of entangled qutrits. <i>Physical Review A</i> , 2018, 98, .	1.0	13
15	Closing the detection loophole in multipartite Bell experiments with a limited number of efficient detectors. <i>Physical Review A</i> , 2018, 98, .	1.0	4
16	Measurement incompatibility does not give rise to Bell violation in general. <i>New Journal of Physics</i> , 2018, 20, 013021.	1.2	27
17	Proposed experiment to test fundamentally binary theories. <i>Physical Review A</i> , 2017, 96, .	1.0	9
18	Qutrit witness from the Grothendieck constant of order four. <i>Physical Review A</i> , 2017, 96, .	1.0	16

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19	Family of Bell inequalities violated by higher-dimensional bound entangled states. <i>Physical Review A</i> , 2017, 96, .	1.0	7
20	Multipartite nonlocality and random measurements. <i>Physical Review A</i> , 2017, 96, .	1.0	24
21	Device-Independent Certification of a Nonprojective Qubit Measurement. <i>Physical Review Letters</i> , 2016, 117, 260401.	2.9	35
22	Demonstration of Einstein-Podolsky-Rosen Steering Using Single-Photon Path Entanglement and Displacement-Based Detection. <i>Physical Review Letters</i> , 2016, 117, 070404.	2.9	37
23	Optimal randomness certification from one entangled bit. <i>Physical Review A</i> , 2016, 93, .	1.0	67
24	Bounding the persistency of the nonlocality of W states. <i>Physical Review A</i> , 2016, 93, .	1.0	8
25	Algorithmic Construction of Local Hidden Variable Models for Entangled Quantum States. <i>Physical Review Letters</i> , 2016, 117, 190402.	2.9	55
26	EPR Steering inequalities with Communication Assistance. <i>Scientific Reports</i> , 2016, 6, 21634.	1.6	12
27	Entanglement without hidden nonlocality. <i>New Journal of Physics</i> , 2016, 18, 113019.	1.2	16
28	Closing the detection loophole in tripartite Bell tests using the W state. <i>Physical Review A</i> , 2015, 92, .	1.0	10
29	Characterizing finite-dimensional quantum behavior. <i>Physical Review A</i> , 2015, 92, .	1.0	31
30	Bell inequalities violated using detectors of low efficiency. <i>Physical Review A</i> , 2015, 92, .	1.0	5
31	Bounding the Set of Finite Dimensional Quantum Correlations. <i>Physical Review Letters</i> , 2015, 115, 020501.	2.9	61
32	Postquantum Steering. <i>Physical Review Letters</i> , 2015, 115, 190403.	2.9	48
33	Inequivalence of entanglement, steering, and Bell nonlocality for general measurements. <i>Physical Review A</i> , 2015, 92, .	1.0	165
34	Absolute nonlocality via distributed computing without communication. <i>Physical Review A</i> , 2015, 92, .	1.0	1
35	Highly noise resistant multiqubit quantum correlations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 465301.	0.7	17
36	Physical characterization of quantum devices from nonlocal correlations. <i>Physical Review A</i> , 2015, 91, .	1.0	62

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37	One-way Einstein-Podolsky-Rosen Steering. <i>Physical Review Letters</i> , 2014, 112, .	2.9	227
38	Robust and Versatile Black-Box Certification of Quantum Devices. <i>Physical Review Letters</i> , 2014, 113, 040401.	2.9	96
39	Device-independent tomography of multipartite quantum states. <i>Physical Review A</i> , 2014, 90, .	1.0	47
40	Characterization of Quantum Correlations with Local Dimension Constraints and Its Device-Independent Applications. <i>Physical Review X</i> , 2014, 4, .	2.8	34
41	Experimental Semi-Device-Independent Certification of Entangled Measurements. <i>Physical Review Letters</i> , 2014, 113, 080405.	2.9	11
42	Disproving the Peres conjecture by showing Bell nonlocality from bound entanglement. <i>Nature Communications</i> , 2014, 5, 5297.	5.8	75
43	Joint Measurability, Einstein-Podolsky-Rosen Steering, and Bell Nonlocality. <i>Physical Review Letters</i> , 2014, 113, 160402.	2.9	209
44	Certifying nonlocality from separable marginals. <i>Physical Review A</i> , 2014, 89, .	1.0	4
45	Translationally invariant multipartite Bell inequalities involving only two-body correlators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424024.	0.7	23
46	Closed sets of correlations: answers from the zoo. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424029.	0.7	24
47	Detecting nonlocality in many-body quantum states. <i>Science</i> , 2014, 344, 1256-1258.	6.0	129
48	Dimension Witnesses and Quantum State Discrimination. <i>Physical Review Letters</i> , 2013, 110, 150501.	2.9	80
49	All quantum states useful for teleportation are nonlocal resources. <i>Physical Review A</i> , 2013, 87, .	1.0	57
50	Closing the detection loophole in multipartite Bell tests using Greenberger-Horne-Zeilinger states. <i>Physical Review A</i> , 2012, 86, .	1.0	12
51	Testing the Structure of Multipartite Entanglement with Bell Inequalities. <i>Physical Review Letters</i> , 2012, 108, 110501.	2.9	72
52	Guaranteed violation of a Bell inequality without aligned reference frames or calibrated devices. <i>Scientific Reports</i> , 2012, 2, 470.	1.6	54
53	Nonlocal multipartite correlations from local marginal probabilities. <i>Physical Review A</i> , 2012, 86, .	1.0	19
54	Quantum Nonlocality Does Not Imply Entanglement Distillability. <i>Physical Review Letters</i> , 2012, 108, 030403.	2.9	47

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55	Persistency of entanglement and nonlocality in multipartite quantum systems. <i>Physical Review A</i> , 2012, 86, .	1.0	20
56	Activation of Nonlocal Quantum Resources. <i>Physical Review Letters</i> , 2011, 106, 060403.	2.9	38
57	Nonclassicality threshold for the three-qubit Greenberger-Horne-Zeilinger state. <i>Physical Review A</i> , 2011, 84, .	1.0	8
58	Multisetting Bell-type inequalities for detecting genuine multipartite entanglement. <i>Physical Review A</i> , 2011, 83, .	1.0	36
59	Certifying entangled measurements in known Hilbert spaces. <i>Physical Review A</i> , 2011, 83, .	1.0	20
60	Semi-device-independent bounds on entanglement. <i>Physical Review A</i> , 2011, 83, .	1.0	58
61	Reciprocity in the degeneracies of some tetra-atomic molecular ions. <i>Journal of Chemical Physics</i> , 2011, 135, 084101.	1.2	12
62	Maximal violation of a bipartite three-setting, two-outcome Bell inequality using infinite-dimensional quantum systems. <i>Physical Review A</i> , 2010, 82, .	1.0	103
63	Two-qubit Bell inequality for which positive operator-valued measurements are relevant. <i>Physical Review A</i> , 2010, 82, .	1.0	37
64	Closing the Detection Loophole in Bell Experiments Using Qudits. <i>Physical Review Letters</i> , 2010, 104, 060401.	2.9	188
65	Quantum bounds on Bell inequalities. <i>Physical Review A</i> , 2009, 79, .	1.0	58
66	Bounding the dimension of bipartite quantum systems. <i>Physical Review A</i> , 2009, 79, .	1.0	33
67	Lower bound on the communication cost of simulating bipartite quantum correlations. <i>Physical Review A</i> , 2009, 80, .	1.0	10
68	Closed sets of nonlocal correlations. <i>Physical Review A</i> , 2009, 80, .	1.0	58
69	Concavity of the set of quantum probabilities for any given dimension. <i>Physical Review A</i> , 2009, 80, .	1.0	10
70	Excited state corrections to looped adiabatic-to-diabatic transformation phases. <i>Chemical Physics</i> , 2008, 351, 136-140.	0.9	1
71	Large Berry phases in layered graphene. <i>Physical Review B</i> , 2008, 78, .	1.1	9
72	Analytic study of some excited state effects in a slightly bent Rennerâ€Teller molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 025102.	0.6	22

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73	Efficiency of higher-dimensional Hilbert spaces for the violation of Bell inequalities. <i>Physical Review A</i> , 2008, 77, .	1.0	39
74	More efficient Bell inequalities for Werner states. <i>Physical Review A</i> , 2008, 78, .	1.0	69
75	Generalized Clauser-Horne-Shimony-Holt inequalities maximally violated by higher-dimensional systems. <i>Physical Review A</i> , 2008, 77, .	1.0	26
76	Nonseparability tests by noncommutativity of excitations. <i>Physical Review A</i> , 2007, 75, .	1.0	3
77	Genuine tripartite entanglement in the noninteracting Fermi gas. <i>Physical Review A</i> , 2007, 75, .	1.0	12
78	Discrimination between evolution operators. <i>Physical Review A</i> , 2007, 76, .	1.0	1
79	Power of unentangled measurements on two antiparallel spins. <i>Physical Review A</i> , 2007, 75, .	1.0	1
80	Unexpected phase-jumps upon cycling around a conical intersection. <i>Journal of Molecular Structure</i> , 2007, 838, 20-23.	1.8	2
81	Phase avalanches in near-adiabatic evolutions. <i>Physical Review A</i> , 2006, 73, .	1.0	5
82	Perturbative analysis of possible failures in the traditional adiabatic conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 353, 11-18.	0.9	17
83	Blaschke-term interpretation of multiple- π geometric phases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 354, 196-199.	0.9	12
84	Relative information encoded in the degree of entanglement to discriminate bipartite states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 357, 167-170.	0.9	2
85	The origin of molecular distortions: A proposed experimental test. <i>Journal of Chemical Physics</i> , 2006, 125, 064102.	1.2	7
86	Thermal entanglement in the nanotubular system $\text{Na}_2\text{V}_3\text{O}_7$. <i>Physical Review B</i> , 2006, 73, .	1.1	44
87	On the detectability of threefold degeneracies of real Hamiltonians. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 334, 363-369.	0.9	0
88	A quasi-static treatment of multiple phase jumps. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 2443-2456.	0.6	10
89	N-State Adiabatic-to-Diabatic Transformation Angle: Theory and Application. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3476-3484.	1.1	39
90	The Berry phase revisited: application to Born-Oppenheimer molecular systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 4603-4620.	0.6	13

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91	Electronic Diabatic Framework: Restrictions Due to Quantization of the Nonadiabatic Coupling Matrix. Journal of Physical Chemistry A, 2004, 108, 9134-9142.	1.1	7
92	On the peculiarities of the diabatic framework: New insight. Journal of Chemical Physics, 2004, 120, 2565-2574.	1.2	11
93	Pair annihilation of conical intersections and a study to infer the phenomenon. Chemical Physics Letters, 2004, 392, 17-22.	1.2	4
94	On diabaticization and the topological D-matrix: Theory and numerical studies of the H ₂ system and the C ₂ H ₂ molecule. Faraday Discussions, 2004, 127, 337-353.	1.6	47
95	Vector Algebra Approach To Obtain Molecular Fields from Conical Intersections: Numerical Applications to H + H ₂ and Na + H ₂ . Journal of Physical Chemistry A, 2004, 108, 8590-8598.	1.1	4
96	A field theoretical approach to calculate electronic Born-Oppenheimer coupling terms. Journal of Chemical Physics, 2004, 121, 4000-4013.	1.2	11
97	Derivation of the electronic nonadiabatic coupling field in molecular systems: An algebraic-vectorial approach. Journal of Chemical Physics, 2004, 120, 8420-8424.	1.2	5
98	The Electronic Non-Adiabatic Coupling Matrix: A Numerical Study of the Curl Condition and the Quantization Condition Employing the Mathieu Equation. Journal of Physical Chemistry A, 2003, 107, 7189-7196.	1.1	12
99	Ab initio conical intersections for the Na+H ₂ system: A four-state study. Journal of Chemical Physics, 2003, 119, 6588-6596.	1.2	28
100	Experimentally friendly approach towards nonlocal correlations in multipartite Bell scenarios. Quantum - the Open Journal for Quantum Science, 0, 5, 430.	0.0	4
101	Better local hidden variable models for two-qubit Werner states and an upper bound on the Grothendieck constant α_2 . http://www.w3.org/1998/Math/MathML α_2 $\leq K G$. Quantum - the Open Journal for Quantum Science, 0, 1, 3.	0.0	5
102	Bond dimension witnesses and the structure of homogeneous matrix product states. Quantum - the Open Journal for Quantum Science, 0, 2, 50.	0.0	5
103	Naturally restricted subsets of nonsignaling correlations: typicality and convergence. Quantum - the Open Journal for Quantum Science, 0, 6, 765.	0.0	3
104	Platonic Bell inequalities for all dimensions. Quantum - the Open Journal for Quantum Science, 0, 6, 756.	0.0	3