

Marek Zukowski

List of Publications by Year in descending order

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148
papers

7,520
citations

94269

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149
all docs

149
docs citations

149
times ranked

3311
citing authors

#	ARTICLE	IF	CITATIONS
1	Comment on "Single particle nonlocality with completely independent reference states". New Journal of Physics, 2022, 24, 038001.	1.2	8
2	Wave-particle complementarity: detecting violation of local realism with photon-number resolving weak-field homodyne measurements. New Journal of Physics, 2022, 24, 033017.	1.2	9
3	Remarks about Bell-nonclassicality of a single photon. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 435, 128031.	0.9	9
4	Simplified quantum optical Stokes observables and Bell's theorem. Scientific Reports, 2022, 12, .	1.6	2
5	Nonclassicality of bright Greenberger-Horne-Zeilinger-like radiation of an optical parametric source. Physical Review A, 2021, 103, .	1.0	3
6	Physics and Metaphysics of Wigner's Friends: Even Performed Premeasurements Have No Results. Physical Review Letters, 2021, 126, 130402.	2.9	16
7	Can single photon excitation of two spatially separated modes lead to a violation of Bell inequality via weak-field homodyne measurements?. New Journal of Physics, 2021, 23, 073042.	1.2	12
8	The Essence of Entanglement. Fundamental Theories of Physics, 2021, , 117-138.	0.1	9
9	General mapping of multiqubit entanglement conditions to nonseparability indicators for quantum-optical fields. Physical Review Research, 2019, 1, .	1.3	3
10	Entanglement indicators for quantum optical fields: three-mode multiport beamsplitters EPR interference experiments. Journal of Optics (United Kingdom), 2018, 20, 044002.	1.0	2
11	Geometric extension of Clauser-Horne inequality to more qubits. New Journal of Physics, 2018, 20, 093006.	1.2	4
12	Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016.	1.2	36
13	Dimensional discontinuity in quantum communication complexity at dimension seven. Physical Review A, 2017, 95, .	1.0	15
14	Clearer visibility of the Hong-Ou-Mandel effect with a correlation function based on rates rather than intensities. Physical Review A, 2017, 95, .	1.0	3
15	Higher-dimensional communication complexity problems: Classical protocols versus quantum ones based on Bell's theorem or prepare-transmit-measure schemes. Physical Review A, 2017, 95, .	1.0	14
16	Experimental test of the irreducible four-qubit Greenberger-Horne-Zeilinger paradox. Physical Review A, 2017, 95, .	1.0	10
17	Normalized Stokes operators for polarization correlations of entangled optical fields. Physical Review A, 2017, 95, .	1.0	15
18	Bell's Theorem Tells Us Not What Quantum Mechanics Is, but What Quantum Mechanics Is Not. The Frontiers Collection, 2017, , 175-185.	0.1	1

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19	On entanglement of light and Stokes parameters. <i>Physica Scripta</i> , 2016, 91, 084001.	1.2	4
20	Bell inequalities for quantum optical fields. <i>Physical Review A</i> , 2016, 94, .	1.0	15
21	Entanglement criteria for noise resistance of two-qudit states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2191-2199.	0.9	14
22	Secret sharing with a single d -level quantum system. <i>Physical Review A</i> , 2015, 92, .	1.0	93
23	Quantum Byzantine agreement via Hardy correlations and entanglement swapping. <i>Physical Review A</i> , 2015, 92, .	1.0	11
24	Beyond Gisin's Theorem and its Applications: Violation of Local Realism by Two-Party Einstein-Podolsky-Rosen Steering. <i>Scientific Reports</i> , 2015, 5, 11624.	1.6	11
25	Two Copies of the Einstein-Podolsky-Rosen State of Light Lead to Refutation of EPR Ideas. <i>Physical Review Letters</i> , 2015, 114, 100402.	2.9	9
26	Quantum Clock Synchronization with a Single Qudit. <i>Scientific Reports</i> , 2015, 5, 7982.	1.6	19
27	Geometric Bell-like inequalities for steering. <i>Physical Review A</i> , 2015, 91, .	1.0	51
28	Detection-efficiency loophole and the Pusey-Barrett-Rudolph theorem. <i>Physical Review A</i> , 2015, 91, .	1.0	5
29	Publisher's Note: Geometric Bell-like inequalities for steering [Phys. Rev. A 91, 032107 (2015)]. <i>Physical Review A</i> , 2015, 91, .	1.0	1
30	Multisetting Greenberger-Horne-Zeilinger theorem. <i>Physical Review A</i> , 2014, 89, .	1.0	15
31	Publisher's Note: Experimental Tests of Classical and Quantum Dimensionality [Phys. Rev. Lett. 112, 140401 (2014)]. <i>Physical Review Letters</i> , 2014, 113, .	2.9	0
32	True multipartite entanglement Hardy test. <i>Physical Review A</i> , 2014, 90, .	1.0	7
33	Quantum non-locality isn't necessarily so.... <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424009.	0.7	39
34	Temporal inequalities for sequential multi-time actions in quantum information processing. <i>Frontiers of Physics</i> , 2014, 9, 629-633.	2.4	13
35	Experimental Tests of Classical and Quantum Dimensionality. <i>Physical Review Letters</i> , 2014, 112, 140401.	2.9	33
36	Solving large-scale optimization problems related to Bell's Theorem. <i>Journal of Computational and Applied Mathematics</i> , 2014, 263, 392-404.	1.1	13

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37	Noise resistance of the violation of local causality for pure three-qutrit entangled states. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 424019.	0.7	10
38	Geometric chained inequalities for higher-dimensional systems. Physical Review A, 2014, 90, .	1.0	6
39	Quantum Bidding in Bridge. Physical Review X, 2014, 4, .	2.8	19
40	Greenberger-Horne-Zeilinger theorem for N qubits. Physical Review A, 2013, 88, .	1.0	17
41	Experimental multipartner quantum communication complexity employing just one qubit. Natural Computing, 2013, 12, 19-26.	1.8	2
42	Experimental multilocation remote state preparation. Physical Review A, 2013, 88, .	1.0	38
43	Multiphoton quantum interference with high visibility using multiport beam splitters. Physical Review A, 2013, 87, .	1.0	4
44	Compact Bell inequalities for multipartite experiments. Physical Review A, 2013, 88, .	1.0	10
45	Detecting genuine multipartite entanglement of pure states with bipartite correlations. Physical Review A, 2013, 87, .	1.0	20
46	Feasible Optical Weak Measurements of Complementary Observables via a Single Hamiltonian. Physical Review Letters, 2012, 108, 080403.	2.9	27
47	N -particle nonclassicality without N -particle correlations. Physical Review A, 2012, 86, .	1.0	12
48	Homogenization of Bell inequalities. Physical Review A, 2012, 85, .	1.0	3
49	Bell's Inequalities in Foundations and Quantum Communication. , 2012, , 1413-1450.		3
50	Multisetting Bell inequalities for N -spin-1 systems avoiding the Kochen-Specker contradiction. Physical Review A, 2012, 86, .	1.0	1
51	Nonclassicality of pure two-qutrit entangled states. Physical Review A, 2012, 85, .	1.0	19
52	Quantum Speedup and Temporal Inequalities for Sequential Actions. , 2012, , 583-594.		0
53	Multiphoton entanglement and interferometry. Reviews of Modern Physics, 2012, 84, 777-838.	16.4	1,007
54	Correlation-tensor criteria for genuine multiqubit entanglement. Physical Review A, 2011, 84, .	1.0	37

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55	Nonclassicality thresholds for multiqubit states: Numerical analysis. <i>Physical Review A</i> , 2010, 82, .	1.0	28
56	Entanglement-assisted random access codes. <i>Physical Review A</i> , 2010, 81, .	1.0	70
57	Entanglement and communication-reducing properties of noisy N -qubit states. <i>Physical Review A</i> , 2010, 81, .	1.0	17
58	On Bell's Theorem, Quantum Communication, and Entanglement Detection. , 2009, , .		0
59	Experimentally accessible geometrical separability criteria. <i>Physica Scripta</i> , 2009, T135, 014002.	1.2	1
60	Experimental Test of Fidelity Limits in Six-Photon Interferometry and of Rotational Invariance Properties of the Photonic Six-Qubit Entanglement Singlet State. <i>Physical Review Letters</i> , 2009, 103, 150501.	2.9	81
61	Unexpected reemergence of the von Neumann theorem. <i>Physical Review A</i> , 2009, 79, .	1.0	5
62	Experimental filtering of two-, four-, and six-photon singlets from a single parametric down-conversion source. <i>Physical Review A</i> , 2009, 80, .	1.0	54
63	Clauser-Horne-Shimony-Holt-type Bell inequalities involving a party with two or three local binary settings. <i>Physical Review A</i> , 2009, 79, .	1.0	6
64	Generation of a high visibility rotationally invariant six-photon entangled state. , 2009, , .		0
65	Multiphoton entanglement: production and applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
66	Interference contrast in multisource few-photon optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 114004.	0.6	16
67	Experimental high fidelity six-photon entangled state for telecloning protocols. <i>New Journal of Physics</i> , 2009, 11, 103016.	1.2	21
68	Multiphoton Interference as a Tool to Observe Families of Multiphoton Entangled States. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 1704-1712.	1.9	4
69	On quantum entanglement and quantum communication. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 965-971.	0.7	0
70	Information causality as a physical principle. <i>Nature</i> , 2009, 461, 1101-1104.	18.7	545
71	Towards a Loophole-Free Test of Bell's Inequality with Entangled Pairs of Neutral Atoms. <i>Advanced Science Letters</i> , 2009, 2, 469-474.	0.2	34
72	Comment on: Nonlocal "Realistic" Leggett Models Can Be Considered Refuted by the Before-Before Experiment. <i>Foundations of Physics</i> , 2008, 38, 1070-1071.	0.6	13

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73	Analysis of critical parameters in the scheme of Björk, Jonsson, and Sánchez-Soto. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1783-1788.	0.9	1
74	Extending Bell inequalities to more parties. Physical Review A, 2008, 77, .	1.0	9
75	Bell theorem without inequalities for two particles. II. Inefficient detectors. Physical Review A, 2008, 78, .	1.0	11
76	Experimentally Friendly Geometrical Criteria for Entanglement. Physical Review Letters, 2008, 100, 140403.	2.9	64
77	Discriminating Multipartite Entangled States. Physical Review Letters, 2008, 100, 200407.	2.9	27
78	Experimental Test of Nonlocal Realistic Theories Without the Rotational Symmetry Assumption. Physical Review Letters, 2007, 99, 210406.	2.9	84
79	Schmidt's Reply. Physical Review Letters, 2007, 98, .	2.9	18
80	Explicit form of correlation-function three-setting tight Bell inequalities for three qubits. Physical Review A, 2007, 76, .	1.0	17
81	An experimental test of non-local realism. Nature, 2007, 446, 871-875.	13.7	305
82	Experimental Interference of Independent Photons. Physical Review Letters, 2006, 96, 240502.	2.9	171
83	On Tight Multiparty Bell Inequalities for Many Settings. Quantum Information Processing, 2006, 5, 287-297.	1.0	6
84	Separability of Quantum States vs. Original Bell (1964) Inequalities. Foundations of Physics, 2006, 36, 541-545.	0.6	2
85	ON SERIES OF MULTIQUBIT BELL'S INEQUALITIES. Modern Physics Letters A, 2006, 21, 111-126.	0.5	11
86	On the paradoxical book of Bell. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2005, 36, 566-575.	1.4	13
87	Entanglement swapping of noisy states: A kind of superadditivity in nonclassicality. Physical Review A, 2005, 72, .	1.0	55
88	All-Versus-Nothing Violation of Local Realism by Two-Photon, Four-Dimensional Entanglement. Physical Review Letters, 2005, 95, 240406.	2.9	100
89	Experimental quantum communication complexity. Physical Review A, 2005, 72, .	1.0	43
90	Experimental Single Qubit Quantum Secret Sharing. Physical Review Letters, 2005, 95, 230505.	2.9	172

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91	Detection of N -particle entanglement with generalized Bell inequalities. <i>Physical Review A</i> , 2005, 72, .	1.0	21
92	Tight Multipartite Bell's Inequalities Involving Many Measurement Settings. <i>Physical Review Letters</i> , 2004, 93, 200401.	2.9	64
93	Bell's Inequalities and Quantum Communication Complexity. <i>Physical Review Letters</i> , 2004, 92, 127901.	2.9	221
94	Rotational Invariance as an Additional Constraint on Local Realism. <i>Physical Review Letters</i> , 2004, 93, 230403.	2.9	26
95	Entanglement and Bell Theorem, 32 Years Later. <i>European Physical Journal A</i> , 2004, 20, 43-46.	0.2	0
96	Three Qubit GHZ Correlations and Generalized Bell Experiments. <i>International Journal of Theoretical Physics</i> , 2003, 42, 1023-1035.	0.5	4
97	Security of quantum key distribution with entangled qutrits. <i>Physical Review A</i> , 2003, 67, .	1.0	138
98	Multiqubit W states lead to stronger nonclassicality than Greenberger-Horne-Zeilinger states. <i>Physical Review A</i> , 2003, 68, .	1.0	102
99	Three-photon W -state. <i>Journal of Modern Optics</i> , 2003, 50, 1131-1138.	0.6	29
100	Some news about bell inequalities. <i>Journal of Modern Optics</i> , 2003, 50, 1151-1163.	0.6	0
101	Unified criterion for security of secret sharing in terms of violation of Bell inequalities. <i>Physical Review A</i> , 2003, 68, .	1.0	61
102	Output state in multiple entanglement swapping. <i>Physical Review A</i> , 2003, 68, .	1.0	9
103	Experimental Violation of Local Realism by Four-Photon Greenberger-Horne-Zeilinger Entanglement. <i>Physical Review Letters</i> , 2003, 91, 180401.	2.9	190
104	Experimental Observation of Four-Photon Entanglement from Parametric Down-Conversion. <i>Physical Review Letters</i> , 2003, 90, 200403.	2.9	155
105	Information-Theoretic Approach to Single-Particle and Two-Particle Interference in Multipath Interferometers. <i>Physical Review Letters</i> , 2003, 91, 037901.	2.9	18
106	QUANTUM COMMUNICATION COMPLEXITY PROTOCOLS BASED ON HIGHER-DIMENSIONAL ENTANGLED SYSTEMS. <i>International Journal of Quantum Information</i> , 2003, 01, 519-525.	0.6	13
107	Some news about Bell inequalities. <i>Journal of Modern Optics</i> , 2003, 50, 1151-1163.	0.6	0
108	Bell's Theorem for General N -Qubit States. <i>Physical Review Letters</i> , 2002, 88, 210401.	2.9	344

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109	Clauser-Horne inequality for three-state systems. <i>Physical Review A</i> , 2002, 65, .	1.0	96
110	Bound entanglement and local realism. <i>Physical Review A</i> , 2002, 65, .	1.0	7
111	Do All Pure Entangled States Violate Bell's Inequalities for Correlation Functions?. <i>Physical Review Letters</i> , 2002, 88, 210402.	2.9	99
112	Greenberger-Horne-Zeilinger paradoxes for N -dimensional systems. <i>Physical Review A</i> , 2002, 66, .	1.0	16
113	Functional Bell inequalities can serve as a stronger entanglement witness than conventional Bell inequalities. <i>Physical Review A</i> , 2002, 66, .	1.0	26
114	Quantum Communication Complexity Protocol with Two Entangled Qutrits. <i>Physical Review Letters</i> , 2002, 89, 197901.	2.9	157
115	Multiphoton entanglement. , 2002, 4917, 45.		1
116	Three-qutrit correlations violate local realism more strongly than those of three qubits. <i>Physical Review A</i> , 2002, 66, .	1.0	22
117	Entangled three-state systems violate local realism more strongly than qubits: An analytical proof. <i>Physical Review A</i> , 2001, 64, .	1.0	52
118	Four-photon entanglement from down-conversion. <i>Physical Review A</i> , 2001, 64, .	1.0	154
119	Aerts et al. Reply. <i>Physical Review Letters</i> , 2001, 86, 1909-1909.	2.9	10
120	Bell theorem for the nonclassical part of the quantum teleportation process. <i>Physical Review A</i> , 2000, 62, .	1.0	16
121	Feasible Kochen-Specker Experiment with Single Particles. <i>Physical Review Letters</i> , 2000, 85, 1783-1786.	2.9	123
122	Violations of local realism in multiphoton interference experiments. <i>Physical Review A</i> , 2000, 61, .	1.0	8
123	Bell theorem involving all possible local measurements. <i>Physical Review A</i> , 2000, 61, .	1.0	13
124	Experiments towards Falsification of Noncontextual Hidden Variable Theories. <i>Physical Review Letters</i> , 2000, 84, 5457-5461.	2.9	102
125	Violations of Local Realism by Two Entangled N -Dimensional Systems Are Stronger than for Two Qubits. <i>Physical Review Letters</i> , 2000, 85, 4418-4421.	2.9	440
126	Greenberger-Horne-Zeilinger paradoxes with symmetric multiport beam splitters. <i>Physical Review A</i> , 1999, 59, 3200-3203.	1.0	27

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127	Irrelevance of photon events distinguishability in a class of Bell experiments. <i>Physical Review A</i> , 1999, 60, R2614-R2617.	1.0	3
128	Independent Photons and Entanglement. A Short Overview. <i>International Journal of Theoretical Physics</i> , 1999, 38, 501-517.	0.5	10
129	Generalized quantum measurements and local realism. <i>Physical Review A</i> , 1998, 58, 1694-1698.	1.0	17
130	Critical visibility for N-particle Greenberger-Horne-Zeilinger correlations to violate local realism. <i>Physical Review A</i> , 1997, 56, R1682-R1685.	1.0	44
131	Three-Particle Entanglements from Two Entangled Pairs. <i>Physical Review Letters</i> , 1997, 78, 3031-3034.	2.9	275
132	Realizable higher-dimensional two-particle entanglements via multiport beam splitters. <i>Physical Review A</i> , 1997, 55, 2564-2579.	1.0	214
133	Revisiting Bell's theorem for a class of down-conversion experiments. <i>Physical Review A</i> , 1997, 56, R4353-R4356.	1.0	30
134	Entangling Photons Radiated by Independent Pulsed Sources. <i>Annals of the New York Academy of Sciences</i> , 1995, 755, 91-102.	1.8	184
135	Bell theorem involving all settings of measuring apparatus. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 177, 290-296.	0.9	67
136	On the existence of empty waves in quantum theory: a comment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 175, 257-258.	0.9	4
137	Classical motion of meter variables in the quantum theory of measurement. <i>Physical Review A</i> , 1993, 47, 2506-2517.	1.0	25
138	Definite values for observables versus quantum predictions: a GHZ-like test. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 157, 198-202.	0.9	18
139	GHZ correlations in quadrature phase measurements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 157, 203-208.	0.9	6
140	Test of the Bell inequality based on phase and linear momentum as well as spin. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 155, 69-72.	0.9	25
141	Two-particle spatial quantum beats: Feasible test of Bell's inequalities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 150, 136-142.	0.9	7
142	Interference in the double-slit experiment with only one slit open at a time. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 135, 411-416.	0.9	2
143	Bell's theorem: Proposition of realizable experiment using linear momenta. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 127, 1-4.	0.9	36
144	On the scattering matrix elements in non-relativistic quantum electrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1982, 90, 169-172.	0.9	3

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145	Experimental Quantum Secret Sharing. , 0, , 303-314.		0
146	Three-photon <i>W</i> -state. , 0, .		6
147	Does violation of a Bell inequality always imply quantum advantage in a communication complexity problem?. Quantum - the Open Journal for Quantum Science, 0, 4, 316.	0.0	14
148	Hierarchy of correlation quantifiers comparable to negativity. Quantum - the Open Journal for Quantum Science, 0, 6, 654.	0.0	3