Marek Zukowski

List of Publications by Year
in descending order

148	7,520	94269	54797
papers	citations	37 h-index	84 g-index

149	149	149	3311
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiphoton entanglement and interferometry. Reviews of Modern Physics, 2012, 84, 777-838.	16.4	1,007
2	Information causality as a physical principle. Nature, 2009, 461, 1101-1104.	13.7	545
3	Violations of Local Realism by Two EntangledN-Dimensional Systems Are Stronger than for Two Qubits. Physical Review Letters, 2000, 85, 4418-4421.	2.9	440
4	Bellâ€™s Theorem for GeneralN-Qubit States. Physical Review Letters, 2002, 88, 210401.	2.9	344
5	An experimental test of non-local realism. Nature, 2007, 446, 871-875.	13.7	305
6	Three-Particle Entanglements from Two Entangled Pairs. Physical Review Letters, 1997, 78, 3031-3034.	2.9	275
7	Bellâ€™s Inequalities and Quantum Communication Complexity. Physical Review Letters, 2004, 92, 127901.	2.9	221
8	Realizable higher-dimensional two-particle entanglements via multiport beam splitters. Physical Review A, 1997, 55, 2564-2579.	1.0	214
9	Experimental Violation of Local Realism by Four-Photon Greenberger-Horne-Zeilinger Entanglement. Physical Review Letters, 2003, 91, 180401.	2.9	190
10	Entangling Photons Radiated by Independent Pulsed Sourcesa. Annals of the New York Academy of Sciences, 1995, 755, 91-102.	1.8	184
11	Experimental Single Qubit Quantum Secret Sharing. Physical Review Letters, 2005, 95, 230505.	2.9	172
12	Experimental Interference of Independent Photons. Physical Review Letters, 2006, 96, 240502.	2.9	171
13	Quantum Communication Complexity Protocol with Two Entangled Qutrits. Physical Review Letters, 2002, 89, 197901.	2.9	157
14	Experimental Observation of Four-Photon Entanglement from Parametric Down-Conversion. Physical Review Letters, 2003, 90, 200403.	2.9	155
15	Four-photon entanglement from down-conversion. Physical Review A, 2001, 64, .	1.0	154
16	Security of quantum key distribution with entangled qutrits. Physical Review A, 2003, 67, .	1.0	138
17	Feasible â€œKochen-Speckerâ€•Experiment with Single Particles. Physical Review Letters, 2000, 85, 1783-1786.	2.9	123
18	Experiments towards Falsification of Noncontextual Hidden Variable Theories. Physical Review Letters, 2000, 84, 5457-5461.	2.9	102

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19	MultiqubitWstates lead to stronger nonclassicality than Greenberger-Horne-Zeilinger states. Physical Review A, 2003, 68, .	1.0	102
20	All-Versus-Nothing Violation of Local Realism by Two-Photon, Four-Dimensional Entanglement. Physical Review Letters, 2005, 95, 240406.	2.9	100
21	Do All Pure Entangled States Violate Bellâ€™s Inequalities for Correlation Functions?. Physical Review Letters, 2002, 88, 210402.	2.9	99
22	Clauser-Horne inequality for three-state systems. Physical Review A, 2002, 65, .	1.0	96
23	Secret sharing with a single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math>-level quantum system. Physical Review A, 2015, 92, .	1.0	93
24	Experimental Test of Nonlocal Realistic Theories Without the Rotational Symmetry Assumption. Physical Review Letters, 2007, 99, 210406.	2.9	84
25	Experimental Test of Fidelity Limits in Six-Photon Interferometry and of Rotational Invariance Properties of the Photonic Six-Qubit Entanglement Singlet State. Physical Review Letters, 2009, 103, 150501.	2.9	81
26	Entanglement-assisted random access codes. Physical Review A, 2010, 81, .	1.0	70
27	Bell theorem involving all settings of measuring apparatus. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 177, 290-296.	0.9	67
28	Tight Multipartite Bell's Inequalities Involving Many Measurement Settings. Physical Review Letters, 2004, 93, 200401.	2.9	64
29	Experimentally Friendly Geometrical Criteria for Entanglement. Physical Review Letters, 2008, 100, 140403.	2.9	64
30	Unified criterion for security of secret sharing in terms of violation of Bell inequalities. Physical Review A, 2003, 68, .	1.0	61
31	Entanglement swapping of noisy states: A kind of superadditivity in nonclassicality. Physical Review A, 2005, 72, .	1.0	55
32	Experimental filtering of two-, four-, and six-photon singlets from a single parametric down-conversion source. Physical Review A, 2009, 80, .	1.0	54
33	Entangled three-state systems violate local realism more strongly than qubits: An analytical proof. Physical Review A, 2001, 64, .	1.0	52
34	Geometric Bell-like inequalities for steering. Physical Review A, 2015, 91, .	1.0	51
35	Critical visibility forN-particle Greenberger-Horne-Zeilinger correlations to violate local realism. Physical Review A, 1997, 56, R1682-R1685.	1.0	44
36	Experimental quantum communication complexity. Physical Review A, 2005, 72, .	1.0	43

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37	Quantum non-localityâ€”it ainÊ¼t necessarily so.... Journal of Physics A: Mathematical and Theoretical, 2014, 47, 424009.	0.7	39
38	Experimental multilocation remote state preparation. Physical Review A, 2013, 88, .	1.0	38
39	Correlation-tensor criteria for genuine multiqubit entanglement. Physical Review A, 2011, 84, .	1.0	37
40	Bell's theorem: Proposition of realizable experiment using linear momenta. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 127, 1-4.	0.9	36
41	Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016.	1.2	36
42	Towards a Loophole-Free Test of Bell's Inequality with Entangled Pairs of Neutral Atoms. Advanced Science Letters, 2009, 2, 469-474.	0.2	34
43	Experimental Tests of Classical and Quantum Dimensionality. Physical Review Letters, 2014, 112, 140401.	2.9	33
44	Revisiting Bellâ€™s theorem for a class of down-conversion experiments. Physical Review A, 1997, 56, R4353-R4356.	1.0	30
45	Three-photon W-state. Journal of Modern Optics, 2003, 50, 1131-1138.	0.6	29
46	Nonclassicality thresholds for multiqubit states: Numerical analysis. Physical Review A, 2010, 82, .	1.0	28
47	Greenberger-Horne-Zeilinger paradoxes with symmetric multiport beam splitters. Physical Review A, 1999, 59, 3200-3203.	1.0	27
48	Discriminating Multipartite Entangled States. Physical Review Letters, 2008, 100, 200407.	2.9	27
49	Feasible Optical Weak Measurements of Complementary Observables via a Single Hamiltonian. Physical Review Letters, 2012, 108, 080403.	2.9	27
50	Functional Bell inequalities can serve as a stronger entanglement witness than conventional Bell inequalities. Physical Review A, 2002, 66, .	1.0	26
51	RotationalInvariance as an Additional Constraint on Local Realism. Physical Review Letters, 2004, 93, 230403.	2.9	26
52	Test of the Bell inequality based on phase and linear momentum as well as spin. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 155, 69-72.	0.9	25
53	Classical motion of meter variables in the quantum theory of measurement. Physical Review A, 1993, 47, 2506-2517.	1.0	25
54	Three-qutrit correlations violate local realism more strongly than those of three qubits. Physical Review A, 2002, 66, .	1.0	22

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55	Detection ofN-particle entanglement with generalized Bell inequalities. Physical Review A, 2005, 72, .	1.0	21
56	Experimental high fidelity six-photon entangled state for telecloning protocols. New Journal of Physics, 2009, 11, 103016.	1.2	21
57	Detecting genuine multipartite entanglement of pure states with bipartite correlations. Physical Review A, 2013, 87, .	1.0	20
58	Nonclassicality of pure two-qutrit entangled states. Physical Review A, 2012, 85, .	1.0	19
59	Quantum Bidding in Bridge. Physical Review X, 2014, 4, .	2.8	19
60	Quantum Clock Synchronization with a Single Qudit. Scientific Reports, 2015, 5, 7982.	1.6	19
61	Definite values for observables versus quantum predictions: a â€œGHZ-likeâ€•test. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 157, 198-202.	0.9	18
62	Information-Theoretic Approach to Single-Particle and Two-Particle Interference in Multipath Interferometers. Physical Review Letters, 2003, 91, 037901.	2.9	18
63	SchmidetÂal.Reply:. Physical Review Letters, 2007, 98, .	2.9	18
64	Generalized quantum measurements and local realism. Physical Review A, 1998, 58, 1694-1698.	1.0	17
65	Explicit form of correlation-function three-setting tight Bell inequalities for three qubits. Physical Review A, 2007, 76, .	1.0	17
66	Entanglement and communication-reducing properties of noisyN-qubit states. Physical Review A, 2010, 81, .	1.0	17
67	Greenberger-Horne-Zeilinger theorem for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>qudits. Physical Review A, 2013, 88, .	1.0	17
68	Bell theorem for the nonclassical part of the quantum teleportation process. Physical Review A, 2000, 62, .	1.0	16
69	Greenberger-Horne-Zeilinger paradoxes forNN-dimensional systems. Physical Review A, 2002, 66, .	1.0	16
70	Interference contrast in multisource few-photon optics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 114004.	0.6	16
71	Physics and Metaphysics of Wignerâ€™s Friends: Even Performed Premeasurements Have No Results. Physical Review Letters, 2021, 126, 130402.	2.9	16
72	Multisetting Greenberger-Horne-Zeilinger theorem. Physical Review A, 2014, 89, .	1.0	15

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73	Bell inequalities for quantum optical fields. Physical Review A, 2016, 94, .	1.0	15
74	Dimensional discontinuity in quantum communication complexity at dimension seven. Physical Review A, 2017, 95, .	1.0	15
75	Normalized Stokes operators for polarization correlations of entangled optical fields. Physical Review A, 2017, 95, .	1.0	15
76	Entanglement criteria for noise resistance of two-qudit states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2191-2199.	0.9	14
77	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
78	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
79	Bell theorem involving all possible local measurements. Physical Review A, 2000, 61, .	1.0	13
80	QUANTUM COMMUNICATION COMPLEXITY PROTOCOLS BASED ON HIGHER-DIMENSIONAL ENTANGLED SYSTEMS. International Journal of Quantum Information, 2003, 01, 519-525.	0.6	13
81	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
82	Comment on: Nonlocal â€œRealisticâ€•Leggett Models CanÂbe Considered Refuted by the Before-Before Experiment. Foundations of Physics, 2008, 38, 1070-1071.	0.6	13
83	Temporal inequalities for sequential multi-time actions in quantum information processing. Frontiers of Physics, 2014, 9, 629-633.	2.4	13
84	Solving large-scale optimization problems related to Bellâ€™s Theorem. Journal of Computational and Applied Mathematics, 2014, 263, 392-404.	1.1	13
85	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-particle nonclassicality without<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-particle correlations. Physical Review A, 2012, 86, .	1.0	12
86	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
87	ON SERIES OF MULTIQUBIT BELL'S INEQUALITIES. Modern Physics Letters A, 2006, 21, 111-126.	0.5	11
88	Bell theorem without inequalities for two particles. II. Inefficient detectors. Physical Review A, 2008, 78, .	1.0	11
89	Quantum Byzantine agreement via Hardy correlations and entanglement swapping. Physical Review A, 2015, 92, .	1.0	11
90	Beyond Gisinâ€™s Theorem and its Applications: Violation of Local Realism by Two-Party Einstein-Podolsky-Rosen Steering. Scientific Reports, 2015, 5, 11624.	1.6	11

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91	Independent Photons and Entanglement. A Short Overview. International Journal of Theoretical Physics, 1999, 38, 501-517.	0.5	10
92	Aertset al.Reply:. Physical Review Letters, 2001, 86, 1909-1909.	2.9	10
93	Compact Bell inequalities for multipartite experiments. Physical Review A, 2013, 88, .	1.0	10
94	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
95	Experimental test of the irreducible four-qubit Greenberger-Horne-Zeilinger paradox. Physical Review A, 2017, 95, .	1.0	10
96	Output state in multiple entanglement swapping. Physical Review A, 2003, 68, .	1.0	9
97	Extending Bell inequalities to more parties. Physical Review A, 2008, 77, .	1.0	9
98	Two Copies of the Einstein-Podolsky-Rosen State of Light Lead to Refutation of EPR Ideas. Physical Review Letters, 2015, 114, 100402.	2.9	9
99	The Essence of Entanglement. Fundamental Theories of Physics, 2021, , 117-138.	0.1	9
100	Waveâ€“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
101	Remarks about Bell-nonclassicality of a single photon. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 435, 128031.	0.9	9
102	Violations of local realism in multiphoton interference experiments. Physical Review A, 2000, 61, .	1.0	8
103	Comment on â€˜Single particle nonlocality with completely independent reference statesâ€™. New Journal of Physics, 2022, 24, 038001.	1.2	8
104	Two-particle spatial quantum beats: Feasible test of Bell's inequalities. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 150, 136-142.	0.9	7
105	Bound entanglement and local realism. Physical Review A, 2002, 65, .	1.0	7
106	True multipartite entanglement Hardy test. Physical Review A, 2014, 90, .	1.0	7
107	GHZ correlations in quadrature phase measurements. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 157, 203-208.	0.9	6
108	On Tight Multiparty Bell Inequalities for Many Settings. Quantum Information Processing, 2006, 5, 287-297.	1.0	6

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109	Clauser-Horne-Shimony-Holt-type Bell inequalities involving a party with two or three local binary settings. Physical Review A, 2009, 79, .	1.0	6
110	Geometric chained inequalities for higher-dimensional systems. Physical Review A, 2014, 90, .	1.0	6
111	Three-photon W-state. , 0, .		6
112	Unexpected reemergence of the von Neumann theorem. Physical Review A, 2009, 79, .	1.0	5
113	Detection-efficiency loophole and the Pusey-Barrett-Rudolph theorem. Physical Review A, 2015, 91, .	1.0	5
114	â€œOn the existence of empty waves in quantum theoryâ€• a comment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 175, 257-258.	0.9	4
115	Three Qubit GHZ Correlations and Generalized Bell Experiments. International Journal of Theoretical Physics, 2003, 42, 1023-1035.	0.5	4
116	Multiphoton Interference as a Tool to Observe Families of Multiphoton Entangled States. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1704-1712.	1.9	4
117	Multiphoton quantum interference with high visibility using multiport beam splitters. Physical Review A, 2013, 87, .	1.0	4
118	On entanglement of light and Stokes parameters. Physica Scripta, 2016, 91, 084001.	1.2	4
119	Geometric extension of Clauserâ€“Horne inequality to more qubits. New Journal of Physics, 2018, 20, 093006.	1.2	4
120	On the scattering matrix elements in non-relativistic quantum electrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 90, 169-172.	0.9	3
121	Irrelevance of photon events distinguishability in a class of Bell experiments. Physical Review A, 1999, 60, R2614-R2617.	1.0	3
122	Homogenization of Bell inequalities. Physical Review A, 2012, 85, .	1.0	3
123	Bell's Inequalities â€” Foundations and Quantum Communication. , 2012, , 1413-1450.		3
124	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
125	Nonclassicality of bright Greenberger-Horne-Zeilingerâ€“like radiation of an optical parametric source. Physical Review A, 2021, 103, .	1.0	3
126	General mapping of multiqudit entanglement conditions to nonseparability indicators for quantum-optical fields. Physical Review Research, 2019, 1, .	1.3	3

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127	Hierarchy of correlation quantifiers comparable to negativity. Quantum - the Open Journal for Quantum Science, 0, 6, 654.	0.0	3
128	Interference in the double-slit experiment with only one slit open at a time. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 135, 411-416.	0.9	2
129	Separability of Quantum States vs. Original Bell (1964) Inequalities. Foundations of Physics, 2006, 36, 541-545.	0.6	2
130	Experimental multipartner quantum communication complexity employing just one qubit. Natural Computing, 2013, 12, 19-26.	1.8	2
131	Entanglement indicators for quantum optical fields: three-mode multiport beamsplitters EPR interference experiments. Journal of Optics (United Kingdom), 2018, 20, 044002.	1.0	2
132	Simplified quantum optical Stokes observables and Bellâ€™s theorem. Scientific Reports, 2022, 12, .	1.6	2
133	Multiphoton entanglement. , 2002, 4917, 45.		1
134	Analysis of critical parameters in the scheme of BjÃ¶rk, Jonsson, and SÃ¡nchez-Soto. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1783-1788.	0.9	1
135	Experimentally accessible geometrical separability criteria. Physica Scripta, 2009, T135, 014002.	1.2	1
136	Multisetting Bell inequalities forNspin-1 systems avoiding the Kochen-Specker contradiction. Physical Review A, 2012, 86, .	1.0	1
137	Publisher's Note: Geometric Bell-like inequalities for steering [Phys. Rev. A91, 032107 (2015)]. Physical Review A, 2015, 91, .	1.0	1
138	Bellâ€™s Theorem Tells Us Not What Quantum Mechanics Is, but What Quantum Mechanics Is Not. The Frontiers Collection, 2017, , 175-185.	0.1	1
139	Some news about bell inequalities. Journal of Modern Optics, 2003, 50, 1151-1163.	0.6	0
140	Entanglement and Bell Theorem, 32 Years Later. European Physical Journal A, 2004, 20, 43-46.	0.2	0
141	Experimental Quantum Secret Sharing. , 0, , 303-314.		0
142	On Bellâ€™s Theorem, Quantum Communication, and Entanglement Detection. , 2009, , .		0
143	Generation of a high visibility rotationally invariant six-photon entangled state. , 2009, , .		0
144	Multiphoton etanglement: production and applications. Proceedings of SPIE, 2009, , .	0.8	0

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145	On quantum entanglement and quantum communication. Physica Status Solidi (B): Basic Research, 2009, 246, 965-971.	0.7	0
146	Quantum Speedup and Temporal Inequalities for Sequential Actions. , 2012, , 583-594.		0
147	Publisherâ€™s Note: Experimental Tests of Classical and Quantum Dimensionality [Phys. Rev. Lett.112, 140401 (2014)]. Physical Review Letters, 2014, 113, .	2.9	0
148	Some news about Bell inequalities. Journal of Modern Optics, 2003, 50, 1151-1163.	0.6	0