

Lev Vaidman

List of Publications by Year in descending order

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130
papers

8,880
citations

81900

39
h-index

42399

92
g-index

132
all docs

132
docs citations

132
times ranked

3361
citing authors

#	ARTICLE	IF	CITATIONS
1	How the result of a measurement of a component of the spin of a spin-1/2 particle can turn out to be 100. <i>Physical Review Letters</i> , 1988, 60, 1351-1354.	7.8	1,952
2	Properties of a quantum system during the time interval between two measurements. <i>Physical Review A</i> , 1990, 41, 11-20.	2.5	900
3	Teleportation of quantum states. <i>Physical Review A</i> , 1994, 49, 1473-1476.	2.5	747
4	Quantum mechanical interaction-free measurements. <i>Foundations of Physics</i> , 1993, 23, 987-997.	1.3	605
5	Two interferometric complementarities. <i>Physical Review A</i> , 1995, 51, 54-67.	2.5	338
6	Quantum Cryptography Based on Orthogonal States. <i>Physical Review Letters</i> , 1995, 75, 1239-1243.	7.8	262
7	Meaning of the wave function. <i>Physical Review A</i> , 1993, 47, 4616-4626.	2.5	240
8	Methods for reliable teleportation. <i>Physical Review A</i> , 1999, 59, 116-125.	2.5	227
9	Phase Estimation with Weak Measurement Using a White Light Source. <i>Physical Review Letters</i> , 2013, 111, 033604.	7.8	222
10	Superpositions of time evolutions of a quantum system and a quantum time-translation machine. <i>Physical Review Letters</i> , 1990, 64, 2965-2968.	7.8	198
11	Minimum time for the evolution to an orthogonal quantum state. <i>American Journal of Physics</i> , 1992, 60, 182-183.	0.7	147
12	Asking Photons Where They Have Been. <i>Physical Review Letters</i> , 2013, 111, 240402.	7.8	146
13	Comment on "Proposed Aharonov-Casher effect: Another example of an Aharonov-Bohm effect arising from a classical lagrangian". <i>Physical Review A</i> , 1988, 37, 4052-4055.	2.5	128
14	Measurement of the Schrödinger wave of a single particle. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 178, 38-42.	2.1	123
15	Torque and force on a magnetic dipole. <i>American Journal of Physics</i> , 1990, 58, 978-983.	0.7	116
16	On schizophrenic experiences of the neutron or why we should believe in the many-worlds interpretation of quantum theory. <i>International Studies in the Philosophy of Science</i> , 1998, 12, 245-261.	0.2	114
17	How to ascertain the values of σ_x , f_y , and f_z of a spin-1/2 particle. <i>Physical Review Letters</i> , 1987, 58, 1385-1387.	7.8	110
18	The Two-State Vector Formalism: An Updated Review. , 2008, , 399-447.		99

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19	Quantum Gambling. <i>Physical Review Letters</i> , 1999, 82, 3356-3359.	7.8	89
20	Weak-measurement elements of reality. <i>Foundations of Physics</i> , 1996, 26, 895-906.	1.3	86
21	Role of potentials in the Aharonov-Bohm effect. <i>Physical Review A</i> , 2012, 86, .	2.5	83
22	Error prevention scheme with four particles. <i>Physical Review A</i> , 1996, 54, R1745-R1748.	2.5	77
23	Surprising quantum effects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 124, 199-203.	2.1	74
24	Measurements, errors, and negative kinetic energy. <i>Physical Review A</i> , 1993, 48, 4084-4090.	2.5	74
25	Multiple-time states and multiple-time measurements in quantum mechanics. <i>Physical Review A</i> , 2009, 79, .	2.5	72
26	Weak value controversy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160395.	3.4	71
27	Quantum-mechanical realization of a Popescu-Rohrlich box. <i>Physical Review A</i> , 2007, 75, .	2.5	64
28	The Reality in Bohmian Quantum Mechanics or Can You Kill with an Empty Wave Bullet?. <i>Foundations of Physics</i> , 2005, 35, 299-312.	1.3	62
29	Weak value beyond conditional expectation value of the pointer readings. <i>Physical Review A</i> , 2017, 96, .	2.5	59
30	Instantaneous Measurement of Nonlocal Variables. <i>Physical Review Letters</i> , 2003, 90, 010402.	7.8	58
31	Measurement process in relativistic quantum theory. <i>Physical Review D</i> , 1986, 34, 1805-1813.	4.7	56
32	Lorentz-invariant $\tilde{\rho}$ elements of reality TM and the joint measurability of commuting observables. <i>Physical Review Letters</i> , 1993, 70, 3369-3372.	7.8	52
33	Variations on the Theme of the Greenberger-Horne-Zeilinger Proof. <i>Foundations of Physics</i> , 1999, 29, 615-630.	1.3	51
34	Nonlocal variables with product-state eigenstates. <i>Journal of Physics A</i> , 2001, 34, 6881-6889.	1.6	50
35	Comment on "Protocol for Direct Counterfactual Quantum Communication". <i>Physical Review Letters</i> , 2014, 112, .	7.8	49
36	The meaning of protective measurements. <i>Foundations of Physics</i> , 1996, 26, 117-126.	1.3	44

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37	Determining the quantum expectation value by measuring a single photon. <i>Nature Physics</i> , 2017, 13, 1191-1194.	16.7	43
38	Causality constraints on nonlocal quantum measurements. <i>Physical Review A</i> , 1994, 49, 4331-4338.	2.5	42
39	The Meaning of the Interaction-Free Measurements. <i>Foundations of Physics</i> , 2003, 33, 491-510.	1.3	42
40	Universality of local weak interactions and its application for interferometric alignment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2881-2890.	7.1	42
41	Nonlocality of a Single Photon Revisited Again. <i>Physical Review Letters</i> , 1995, 75, 2063-2063.	7.8	41
42	The three-box paradox revisited. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 2873-2882.	2.1	39
43	Quantum theory and determinism. <i>Quantum Studies: Mathematics and Foundations</i> , 2014, 1, 5-38.	0.9	39
44	The Two-State Vector Formalism of Quantum Mechanics. , 2002, , 369-412.		38
45	Aharonov-Bohm and Berry Phases for a Quantum Cloud of Charge. <i>Physical Review Letters</i> , 1994, 73, 918-921.	7.8	36
46	Probability in the Many-Worlds Interpretation of Quantum Mechanics. <i>The Frontiers Collection</i> , 2012, , 299-311.	0.2	35
47	Modification of counterfactual communication protocols that eliminates weak particle traces. <i>Physical Review A</i> , 2019, 99, .	2.5	33
48	On a proposed postulate of state-reduction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 139, 1-4.	2.1	28
49	Tests of Bell inequalities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 286, 241-244.	2.1	27
50	Weak measurement of photon polarization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 143, 357-361.	2.1	24
51	Comment on "Past of a quantum particle revisited". <i>Physical Review A</i> , 2019, 99, .	2.5	22
52	In defence of the self-location uncertainty account of probability in the many-worlds interpretation. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2019, 66, 14-23.	1.4	21
53	Goldenberg and Vaidman Reply.. <i>Physical Review Letters</i> , 1996, 77, 3265-3265.	7.8	20
54	Reply to "Comment on "Role of potentials in the Aharonov-Bohm effect". <i>Physical Review A</i> , 2015, 92, .	2.2	20

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55	Practical quantum bit commitment protocol. <i>Quantum Information Processing</i> , 2012, 11, 769-775.	2.2	18
56	Position measurements in the de Broglie-Bohm interpretation of quantum mechanics. <i>Annals of Physics</i> , 2012, 327, 2522-2542.	2.8	17
57	When Photons Are Lying about Where They Have Been. <i>Entropy</i> , 2018, 20, 538.	2.2	17
58	Time-Symmetrized Counterfactuals in Quantum Theory. <i>Foundations of Physics</i> , 1999, 29, 755-765.	1.3	15
59	Correcting quantum errors with the Zeno effect. <i>Physical Review A</i> , 2004, 69, .	2.5	15
60	Response: Commentary: "Asking photons where they have been" - without telling them what to say. <i>Frontiers in Physics</i> , 2015, 3, .	2.1	15
61	Analysis of counterfactuality of counterfactual communication protocols. <i>Physical Review A</i> , 2019, 99, .	2.5	14
62	Measurements of Nonlocal Variables and Demonstration of the Failure of the Product Rule for a Pre- and Postselected Pair of Photons. <i>Physical Review Letters</i> , 2019, 122, 100405.	7.8	14
63	On the Two-State Vector Reformulation of Quantum Mechanics. <i>Physica Scripta</i> , 1998, T76, 85.	2.5	13
64	On the Paradoxical Aspects of New Quantum Experiments. <i>PSA Proceedings of the Biennial Meeting of the Philosophy of Science Association</i> , 1994, 1994, 210-217.	0.1	13
65	A quantum time machine. <i>Foundations of Physics</i> , 1991, 21, 947-958.	1.3	12
66	Validity of the Aharonov-Bergmann-Lebowitz rule. <i>Physical Review A</i> , 1998, 57, 2251-2253.	2.5	12
67	The classical limit of quantum optics: not what it seems at first sight. <i>New Journal of Physics</i> , 2013, 15, 093006.	2.9	12
68	Comment on "Paradox of photons disconnected trajectories being located by means of weak measurements" in the nested Mach-Zehnder interferometer. (<i>JETP Letters</i> 105, 152 (2017)). <i>JETP Letters</i> , 2017, 105, 473-474.	1.4	12
69	Protective Measurements. <i>Annals of the New York Academy of Sciences</i> , 1995, 755, 361-373.	3.8	11
70	The Meaning of Elements of Reality and Quantum Counterfactuals: Reply to Kastner. <i>Foundations of Physics</i> , 1999, 29, 865-876.	1.3	11
71	Peculiar features of entangled states with postselection. <i>Physical Review A</i> , 2013, 87, .	2.5	11
72	Applications of a simple quantum mechanical formula. <i>American Journal of Physics</i> , 1996, 64, 1059-1060.	0.7	10

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73	Qubits versus Bits for Measuring an Integral of a Classical Field. <i>Physical Review Letters</i> , 2004, 92, 217902.	7.8	9
74	All is $\hat{\Gamma}$: <i>Journal of Physics: Conference Series</i> , 2016, 701, 012020.	0.4	9
75	Protective Measurements of Two-State Vectors. <i>Boston Studies in the Philosophy and History of Science</i> , 1997, , 1-8.	0.9	9
76	Time-Symmetrized Quantum Theory. <i>Fortschritte Der Physik</i> , 1998, 46, 729-739.	4.4	8
77	Backward evolving quantum states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 3275-3284.	2.1	8
78	Anomalous weak values via a single photon detection. <i>Light: Science and Applications</i> , 2021, 10, 106.	16.6	8
79	Teleportation: Dream or reality?. , 1999, , .		7
80	Measurements of non local weak values. <i>Journal of Physics: Conference Series</i> , 2009, 174, 012004.	0.4	7
81	Three approaches for analyzing the counterfactuality of counterfactual protocols. <i>Physical Review A</i> , 2021, 104, .	2.5	7
82	Derivations of the Born Rule. <i>Jerusalem Studies in Philosophy and History of Science</i> , 2020, , 567-584.	0.8	7
83	Interference and transmission of quantum fluxons through a Josephson ring. <i>Physical Review A</i> , 1995, 52, 3541-3545.	2.5	6
84	Negative Kinetic Energy between Past and Future State Vectorsa. <i>Annals of the New York Academy of Sciences</i> , 1995, 755, 394-399.	3.8	6
85	NONLOCAL MEASUREMENTS IN THE TIME-SYMMETRIC QUANTUM MECHANICS. <i>International Journal of Modern Physics B</i> , 2006, 20, 1528-1535.	2.0	6
86	Comment on "Non-representative Quantum Mechanical Weak Values". <i>Foundations of Physics</i> , 2017, 47, 467-470.	1.3	6
87	Quantum Nonlocality. <i>Entropy</i> , 2019, 21, 447.	2.2	6
88	Time Symmetry and the Many-Worlds Interpretation. , 2010, , 582-596.		6
89	Footprints of quantum pigeons. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
90	Strict bounds on the Franson inequality. <i>Physical Review A</i> , 1998, 57, 1583-1585.	2.5	5

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91	Are interaction-free measurements interaction free?. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0,784314 rgBT /Overl	0,6	5
92	Evolution stopped in its tracks. Nature, 2008, 451, 137-138.	27.8	5
93	Neutrons and photons inside a nested Mach-Zehnder interferometer. Physical Review A, 2020, 101, .	2.5	5
94	Counterfactuals in Quantum Mechanics. , 2009, , 132-136.		5
95	Ontology of the Wave Function and the Many-Worlds Interpretation. , 2019, , 93-106.		5
96	Weak Value and Weak Measurements. , 2009, , 840-842.		4
97	How the Many Worlds Interpretation Brings Common Sense to Paradoxical Quantum Experiments. , 2020, , 40-60.		4
98	Protective measurement of the wave function of a single system. , 0, , 15-27.		3
99	Comment on "Time asymmetry in quantum mechanics: a retrodiction paradox" Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 203, 148-149.	2.1	3
100	Instantaneous measurements of nonlocal variables. Journal of Modern Optics, 2003, 50, 943-949.	1.3	3
101	Two-State Vector Formalism. , 2009, , 802-806.		3
102	Quantum Phases: 50 years of the Aharonov-Bohm effect and 25 years of the Berry phase. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 350301.	2.1	3
103	On some speculations about the state reductions of photons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 171, 438-440.	2.1	2
104	Continuous input nonlocal games. Natural Computing, 2013, 12, 5-8.	3.0	2
105	The Bell Inequality and the Many-Worlds Interpretation. , 0, , 195-203.		2
106	There is No New Problem for Quantum Mechanics. Foundations of Physics, 2020, 50, 1728-1734.	1.3	2
107	Protective Measurement" A New Quantum Measurement Paradigm: Detailed Description of the First Realization. Applied Sciences (Switzerland), 2021, 11, 4260.	2.5	2
108	Protective Measurements. NATO ASI Series Series B: Physics, 1995, , 355-356.	0.2	2

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109	The Predictability of the Results of Measurements of Noncommuting Variables. <i>Annals of the New York Academy of Sciences</i> , 1986, 480, 620-621.	3.8	1
110	Measurement of an integral of a classical field with a single quantum particle. <i>Physical Review A</i> , 2005, 71, .	2.5	1
111	Intellectually delicious. <i>Nature Physics</i> , 2010, 6, 160-161.	16.7	1
112	David Wallace, <i>The Emergent Multiverse: Quantum Theory According to the Everett Interpretation</i>. Oxford: Oxford University Press, 2012, £40 (hardback) ISBN: 978-0-199-54696-1. <i>British Journal for the Philosophy of Science</i> , 2015, 66, 465-468.	2.3	1
113	Failed attempt to escape from the quantum pigeon conundrum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 399, 127287.	2.1	1
114	An Impossible Necklace. , 2002, , 221-223.		1
115	Instantaneous measurements of nonlocal variables. <i>Journal of Modern Optics</i> , 2003, 50, 943-949.	1.3	1
116	Interaction-Free Measurements (Elitzurâ€”Vaidman, EV IFM). , 2009, , 317-322.		1
117	Nonlocal Measurements and Teleportation of Quantum States. , 1995, , 347-356.		1
118	QUANTUM TIME MACHINE. , 1991, , .		0
119	Is it possible to know about something without ever interacting with it?. <i>New Astronomy Reviews</i> , 1993, 37, 253-256.	0.3	0
120	There is no classical analog of a quantum time-translation machine. <i>Physical Review A</i> , 1995, 52, 4297-4298.	2.5	0
121	Interplay of Aharonov-Bohm and Berry Phases for a Quantum Cloud of Chargea. <i>Annals of the New York Academy of Sciences</i> , 1995, 755, 882-887.	3.8	0
122	Sleeping Beauty in Quantumland. <i>NeuroQuantology</i> , 2013, 11, .	0.2	0
123	Preface to Volume 2, Issue 1 of <i>Quantum Studies: Mathematics and Foundations</i> . <i>Quantum Studies: Mathematics and Foundations</i> , 2015, 2, 1-3.	0.9	0
124	Weak measurements: From measuring incompatible observables and testing quantum contextuality to protective measurements. , 2017, , .		0
125	Quantum Reports: A New Journal for a Broad Audience. <i>Quantum Reports</i> , 2018, 1, 1-2.	1.3	0
126	MEASUREMENTS OF NONLOCAL VARIABLES. , 2003, , .		0

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127	Paradoxes of the Aharonov-Bohm and the Aharonov-Casher Effects. , 2014, , 247-255.		0
128	Weak Measurements. NATO ASI Series Series B: Physics, 1995, , 357-373.	0.2	0
129	Protective measurements: extracting the expectation value by measuring a single particle. , 2018, , .		0
130	Counterfactual communication. , 2019, , .		0