

Lev Vaidman

List of Publications by Year in descending order

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130
papers

8,880
citations

93792

39
h-index

48101

92
g-index

132
all docs

132
docs citations

132
times ranked

3754
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous weak values via a single photon detection. <i>Light: Science and Applications</i> , 2021, 10, 106.	7.7	8
2	Protective Measurement – A New Quantum Measurement Paradigm: Detailed Description of the First Realization. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4260.	1.3	2
3	Failed attempt to escape from the quantum pigeon conundrum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 399, 127287.	0.9	1
4	Three approaches for analyzing the counterfactuality of counterfactual protocols. <i>Physical Review A</i> , 2021, 104, .	1.0	7
5	There is No New Problem for Quantum Mechanics. <i>Foundations of Physics</i> , 2020, 50, 1728-1734.	0.6	2
6	Neutrons and photons inside a nested Mach-Zehnder interferometer. <i>Physical Review A</i> , 2020, 101, .	1.0	5
7	Derivations of the Born Rule. <i>Jerusalem Studies in Philosophy and History of Science</i> , 2020, , 567-584.	0.7	7
8	Footprints of quantum pigeons. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
9	How the Many Worlds Interpretation Brings Common Sense to Paradoxical Quantum Experiments. , 2020, , 40-60.		4
10	Modification of counterfactual communication protocols that eliminates weak particle traces. <i>Physical Review A</i> , 2019, 99, .	1.0	33
11	Analysis of counterfactuality of counterfactual communication protocols. <i>Physical Review A</i> , 2019, 99, .	1.0	14
12	Quantum Nonlocality. <i>Entropy</i> , 2019, 21, 447.	1.1	6
13	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.	2.9	14
14	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.	3.3	42
15	Comment on “Past of a quantum particle revisited”. <i>Physical Review A</i> , 2019, 99, .	1.0	22
16	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
17	Counterfactual communication. , 2019, , .		0
18	Ontology of the Wave Function and the Many-Worlds Interpretation. , 2019, , 93-106.		5

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19	Quantum Reports: A New Journal for a Broad Audience. Quantum Reports, 2018, 1, 1-2.	0.6	0
20	When Photons Are Lying about Where They Have Been. Entropy, 2018, 20, 538.	1.1	17
21	Protective measurements: extracting the expectation value by measuring a single particle. , 2018, , .		0
22	Comment on "Non-representative Quantum Mechanical Weak Values": Foundations of Physics, 2017, 47, 467-470.	0.6	6
23	Weak value controversy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160395.	1.6	71
24	Weak value beyond conditional expectation value of the pointer readings. Physical Review A, 2017, 96, .	1.0	59
25	Determining the quantum expectation value by measuring a single photon. Nature Physics, 2017, 13, 1191-1194.	6.5	43
26	Comment on "Paradox of photons disconnected trajectories being located by means of "weak measurements" in the nested Mach-Zehnder interferometer" (JETP Letters 105, 152 (2017)). JETP Letters, 2017, 105, 473-474.	0.4	12
27	Weak measurements: From measuring incompatible observables and testing quantum contextuality to protective measurements. , 2017, , .		0
28	All is $\hat{\Gamma}$: Journal of Physics: Conference Series, 2016, 701, 012020.	0.3	9
29	Reply to "Comment on "Role of potentials in the Aharonov-Bohm effect" (Physical Review A, 2015, 92, .		20
30	Response: Commentary: "Asking photons where they have been" - without telling them what to say. Frontiers in Physics, 2015, 3, .	1.0	15
31	Preface to Volume 2, Issue 1 of Quantum Studies: Mathematics and Foundations. Quantum Studies: Mathematics and Foundations, 2015, 2, 1-3.	0.4	0
32	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. British Journal for the Philosophy of Science, 2015, 66, 465-468.	1.4	1
33	Quantum theory and determinism. Quantum Studies: Mathematics and Foundations, 2014, 1, 5-38.	0.4	39
34	Comment on "Protocol for Direct Counterfactual Quantum Communication": Physical Review Letters, 2014, 112, .	2.9	49
35	Paradoxes of the Aharonov-Bohm and the Aharonov-Casher Effects. , 2014, , 247-255.		0
36	Continuous input nonlocal games. Natural Computing, 2013, 12, 5-8.	1.8	2

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37	Phase Estimation with Weak Measurement Using a White Light Source. <i>Physical Review Letters</i> , 2013, 111, 033604.	2.9	222
38	Asking Photons Where They Have Been. <i>Physical Review Letters</i> , 2013, 111, 240402.	2.9	146
39	The classical limit of quantum optics: not what it seems at first sight. <i>New Journal of Physics</i> , 2013, 15, 093006.	1.2	12
40	Peculiar features of entangled states with postselection. <i>Physical Review A</i> , 2013, 87, .	1.0	11
41	Sleeping Beauty in Quantumland. <i>NeuroQuantology</i> , 2013, 11, .	0.1	0
42	Role of potentials in the Aharonov-Bohm effect. <i>Physical Review A</i> , 2012, 86, .	1.0	83
43	Position measurements in the de Broglie-Bohm interpretation of quantum mechanics. <i>Annals of Physics</i> , 2012, 327, 2522-2542.	1.0	17
44	Practical quantum bit commitment protocol. <i>Quantum Information Processing</i> , 2012, 11, 769-775.	1.0	18
45	Probability in the Many-Worlds Interpretation of Quantum Mechanics. <i>The Frontiers Collection</i> , 2012, , 299-311.	0.1	35
46	Intellectually delicious. <i>Nature Physics</i> , 2010, 6, 160-161.	6.5	1
47	Quantum Phases: 50 years of the Aharonov-Bohm effect and 25 years of the Berry phase. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 350301.	0.7	3
48	Time Symmetry and the Many-Worlds Interpretation. , 2010, , 582-596.		6
49	Multiple-time states and multiple-time measurements in quantum mechanics. <i>Physical Review A</i> , 2009, 79, .	1.0	72
50	Measurements of non local weak values. <i>Journal of Physics: Conference Series</i> , 2009, 174, 012004.	0.3	7
51	Weak Value and Weak Measurements. , 2009, , 840-842.		4
52	Two-State Vector Formalism. , 2009, , 802-806.		3
53	Counterfactuals in Quantum Mechanics. , 2009, , 132-136.		5
54	Interaction-Free Measurements (Elitzur-Vaidman, EV IFM). , 2009, , 317-322.		1

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55	Evolution stopped in its tracks. <i>Nature</i> , 2008, 451, 137-138.	13.7	5
56	The Two-State Vector Formalism: An Updated Review. , 2008, , 399-447.		99
57	The three-box paradox revisited. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 2873-2882.	0.7	39
58	Quantum-mechanical realization of a Popescu-Rohrlich box. <i>Physical Review A</i> , 2007, 75, .	1.0	64
59	Backward evolving quantum states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 3275-3284.	0.7	8
60	NONLOCAL MEASUREMENTS IN THE TIME-SYMMETRIC QUANTUM MECHANICS. <i>International Journal of Modern Physics B</i> , 2006, 20, 1528-1535.	1.0	6
61	The Reality in Bohmian Quantum Mechanics or Can You Kill with an Empty Wave Bullet?. <i>Foundations of Physics</i> , 2005, 35, 299-312.	0.6	62
62	Measurement of an integral of a classical field with a single quantum particle. <i>Physical Review A</i> , 2005, 71, .	1.0	1
63	Qubits versus Bits for Measuring an Integral of a Classical Field. <i>Physical Review Letters</i> , 2004, 92, 217902.	2.9	9
64	Correcting quantum errors with the Zeno effect. <i>Physical Review A</i> , 2004, 69, .	1.0	15
65	The Meaning of the Interaction-Free Measurements. <i>Foundations of Physics</i> , 2003, 33, 491-510.	0.6	42
66	Instantaneous measurements of nonlocal variables. <i>Journal of Modern Optics</i> , 2003, 50, 943-949.	0.6	3
67	Instantaneous Measurement of Nonlocal Variables. <i>Physical Review Letters</i> , 2003, 90, 010402.	2.9	58
68	MEASUREMENTS OF NONLOCAL VARIABLES. , 2003, , .		0
69	The Two-State Vector Formalism of Quantum Mechanics. , 2002, , 369-412.		38
70	An Impossible Necklace. , 2002, , 221-223.		1
71	Nonlocal variables with product-state eigenstates. <i>Journal of Physics A</i> , 2001, 34, 6881-6889.	1.6	50
72	Tests of Bell inequalities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 286, 241-244.	0.9	27

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73	Are interaction-free measurements interaction free?. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0,784314 rgBT /Overl	0.2	5
74	Quantum Gambling. Physical Review Letters, 1999, 82, 3356-3359.	2.9	89
75	Methods for reliable teleportation. Physical Review A, 1999, 59, 116-125.	1.0	227
76	The Meaning of Elements of Reality and Quantum Counterfactuals: Reply to Kastner. Foundations of Physics, 1999, 29, 865-876.	0.6	11
77	Time-Symmetrized Counterfactuals in Quantum Theory. Foundations of Physics, 1999, 29, 755-765.	0.6	15
78	Variations on the Theme of the Greenberger-Horne-Zeilinger Proof. Foundations of Physics, 1999, 29, 615-630.	0.6	51
79	Teleportation: Dream or reality?. , 1999, , .		7
80	Time-Symmetrized Quantum Theory. Fortschritte Der Physik, 1998, 46, 729-739.	1.5	8
81	On schizophrenic experiences of the neutron or why we should believe in the manyâ€œworlds interpretation of quantum theory. International Studies in the Philosophy of Science, 1998, 12, 245-261.	0.2	114
82	Validity of the Aharonov-Bergmann-Lebowitz rule. Physical Review A, 1998, 57, 2251-2253.	1.0	12
83	Strict bounds on the Franson inequality. Physical Review A, 1998, 57, 1583-1585.	1.0	5
84	On the Two-State Vector Reformulation of Quantum Mechanics. Physica Scripta, 1998, T76, 85.	1.2	13
85	Protective Measurements of Two-State Vectors. Boston Studies in the Philosophy and History of Science, 1997, , 1-8.	0.4	9
86	The meaning of protective measurements. Foundations of Physics, 1996, 26, 117-126.	0.6	44
87	Weak-measurement elements of reality. Foundations of Physics, 1996, 26, 895-906.	0.6	86
88	Error prevention scheme with four particles. Physical Review A, 1996, 54, R1745-R1748.	1.0	77
89	Applications of a simple quantum mechanical formula. American Journal of Physics, 1996, 64, 1059-1060.	0.3	10
90	Goldenberg and Vaidman Reply:. Physical Review Letters, 1996, 77, 3265-3265.	2.9	20

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91	Comment on "Time asymmetry in quantum mechanics: a retrodiction paradox" Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 203, 148-149.	0.9	3
92	Interference and transmission of quantum fluxons through a Josephson ring. Physical Review A, 1995, 52, 3541-3545.	1.0	6
93	Nonlocality of a Single Photon Revisited Again. Physical Review Letters, 1995, 75, 2063-2063.	2.9	41
94	There is no classical analog of a quantum time-translation machine. Physical Review A, 1995, 52, 4297-4298.	1.0	0
95	Protective Measurements. Annals of the New York Academy of Sciences, 1995, 755, 361-373.	1.8	11
96	Negative Kinetic Energy between Past and Future State Vectors. Annals of the New York Academy of Sciences, 1995, 755, 394-399.	1.8	6
97	Interplay of Aharonov-Bohm and Berry Phases for a Quantum Cloud of Charge. Annals of the New York Academy of Sciences, 1995, 755, 882-887.	1.8	0
98	Two interferometric complementarities. Physical Review A, 1995, 51, 54-67.	1.0	338
99	Quantum Cryptography Based on Orthogonal States. Physical Review Letters, 1995, 75, 1239-1243.	2.9	262
100	Protective Measurements. NATO ASI Series Series B: Physics, 1995, , 355-356.	0.2	2
101	Nonlocal Measurements and Teleportation of Quantum States. , 1995, , 347-356.		1
102	Weak Measurements. NATO ASI Series Series B: Physics, 1995, , 357-373.	0.2	0
103	Aharonov-Bohm and Berry Phases for a Quantum Cloud of Charge. Physical Review Letters, 1994, 73, 918-921.	2.9	36
104	Causality constraints on nonlocal quantum measurements. Physical Review A, 1994, 49, 4331-4338.	1.0	42
105	Teleportation of quantum states. Physical Review A, 1994, 49, 1473-1476.	1.0	747
106	On the Paradoxical Aspects of New Quantum Experiments. PSA Proceedings of the Biennial Meeting of the Philosophy of Science Association, 1994, 1994, 210-217.	0.1	13
107	Measurement of the Schrödinger wave of a single particle. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 178, 38-42.	0.9	123
108	Is it possible to know about something without ever interacting with it?. New Astronomy Reviews, 1993, 37, 253-256.	0.3	0

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109	Quantum mechanical interaction-free measurements. Foundations of Physics, 1993, 23, 987-997.	0.6	605
110	Meaning of the wave function. Physical Review A, 1993, 47, 4616-4626.	1.0	240
111	Lorentz-invariant $\hat{\rho}$ elements of reality TM and the joint measurability of commuting observables. Physical Review Letters, 1993, 70, 3369-3372.	2.9	52
112	Measurements, errors, and negative kinetic energy. Physical Review A, 1993, 48, 4084-4090.	1.0	74
113	Minimum time for the evolution to an orthogonal quantum state. American Journal of Physics, 1992, 60, 182-183.	0.3	147
114	On some speculations about the state reductions of photons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 171, 438-440.	0.9	2
115	A quantum time machine. Foundations of Physics, 1991, 21, 947-958.	0.6	12
116	QUANTUM TIME MACHINE. , 1991, , .		0
117	Weak measurement of photon polarization. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 143, 357-361.	0.9	24
118	Superpositions of time evolutions of a quantum system and a quantum time-translation machine. Physical Review Letters, 1990, 64, 2965-2968.	2.9	198
119	Properties of a quantum system during the time interval between two measurements. Physical Review A, 1990, 41, 11-20.	1.0	900
120	Torque and force on a magnetic dipole. American Journal of Physics, 1990, 58, 978-983.	0.3	116
121	On a proposed postulate of state-reduction. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 139, 1-4.	0.9	28
122	Comment on $\hat{\rho}$ Proposed Aharonov-Casher effect: Another example of an Aharonov-Bohm effect arising from a classical lag TM . Physical Review A, 1988, 37, 4052-4055.	1.0	128
123	How the result of a measurement of a component of the spin of a spin-1/2 particle can turn out to be 100. Physical Review Letters, 1988, 60, 1351-1354.	2.9	1,952
124	How to ascertain the values of σ_x , σ_y , and σ_z of a spin-1/2 particle. Physical Review Letters, 1987, 58, 1385-1387.	2.9	110
125	Surprising quantum effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 124, 199-203.	0.9	74
126	The Predictability of the Results of Measurements of Noncommuting Variables. Annals of the New York Academy of Sciences, 1986, 480, 620-621.	1.8	1

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127	Measurement process in relativistic quantum theory. Physical Review D, 1986, 34, 1805-1813.	1.6	56
128	Protective measurement of the wave function of a single system. , 0, , 15-27.		3
129	The Bell Inequality and the Many-Worlds Interpretation. , 0, , 195-203.		2
130	Instantaneous measurements of nonlocal variables. , 0, .		1