

# Lev Vaidman

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Anomalous weak values via a single photon detection. <i>Light: Science and Applications</i> , 2021, 10, 106.  | 16.6 | 8         |
| 2  | Protective Measurement – A New Quantum Measurement Paradigm: Detailed Description of the First Realization. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4260.   | 2.5  | 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.   | 2.1  | 1         |
| 4  | Three approaches for analyzing the counterfactuality of counterfactual protocols. <i>Physical Review A</i> , 2021, 104, .   | 2.5  | 7         |
| 5  | There is No New Problem for Quantum Mechanics. <i>Foundations of Physics</i> , 2020, 50, 1728-1734.   | 1.3  | 2         |
| 6  | Neutrons and photons inside a nested Mach-Zehnder interferometer. <i>Physical Review A</i> , 2020, 101, .   | 2.5  | 5         |
| 7  | Derivations of the Born Rule. <i>Jerusalem Studies in Philosophy and History of Science</i> , 2020, , 567-584.  | 0.8  | 7         |
| 8  | Footprints of quantum pigeons. <i>Physical Review Research</i> , 2020, 2, .   | 3.6  | 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, .   | 2.5  | 33        |
| 11 | Analysis of counterfactuality of counterfactual communication protocols. <i>Physical Review A</i> , 2019, 99, .   | 2.5  | 14        |
| 12 | Quantum Nonlocality. <i>Entropy</i> , 2019, 21, 447.  | 2.2  | 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.  | 7.8  | 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.                                 | 7.1  | 42        |
| 15 | Comment on “Past of a quantum particle revisited”. <i>Physical Review A</i> , 2019, 99, .   | 2.5  | 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.   | 1.3  | 0         |
| 20 | When Photons Are Lying about Where They Have Been. Entropy, 2018, 20, 538.  | 2.2  | 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.  | 1.3  | 6         |
| 23 | Weak value controversy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160395.   | 3.4  | 71        |
| 24 | Weak value beyond conditional expectation value of the pointer readings. Physical Review A, 2017, 96, .   | 2.5  | 59        |
| 25 | Determining the quantum expectation value by measuring a single photon. Nature Physics, 2017, 13, 1191-1194.  | 16.7 | 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.                                     | 1.4  | 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.   | 0.4  | 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, .  | 2.1  | 15        |
| 31 | Preface to Volume 2, Issue 1 of Quantum Studies: Mathematics and Foundations. Quantum Studies: Mathematics and Foundations, 2015, 2, 1-3.   | 0.9  | 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. | 2.3  | 1         |
| 33 | Quantum theory and determinism. Quantum Studies: Mathematics and Foundations, 2014, 1, 5-38.  | 0.9  | 39        |
| 34 | Comment on "Protocol for Direct Counterfactual Quantum Communication": Physical Review Letters, 2014, 112, .  | 7.8  | 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.  | 3.0  | 2         |

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|----|---|------|-----------|
| 37 | Phase Estimation with Weak Measurement Using a White Light Source. <i>Physical Review Letters</i> , 2013, 111, 033604.  | 7.8  | 222       |
| 38 | Asking Photons Where They Have Been. <i>Physical Review Letters</i> , 2013, 111, 240402.  | 7.8  | 146       |
| 39 | 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        |
| 40 | Peculiar features of entangled states with postselection. <i>Physical Review A</i> , 2013, 87, .  | 2.5  | 11        |
| 41 | Sleeping Beauty in Quantumland. <i>NeuroQuantology</i> , 2013, 11, .  | 0.2  | 0         |
| 42 | Role of potentials in the Aharonov-Bohm effect. <i>Physical Review A</i> , 2012, 86, .  | 2.5  | 83        |
| 43 | Position measurements in the de Broglie-Bohm interpretation of quantum mechanics. <i>Annals of Physics</i> , 2012, 327, 2522-2542.                                  | 2.8  | 17        |
| 44 | Practical quantum bit commitment protocol. <i>Quantum Information Processing</i> , 2012, 11, 769-775.   | 2.2  | 18        |
| 45 | Probability in the Many-Worlds Interpretation of Quantum Mechanics. <i>The Frontiers Collection</i> , 2012, , 299-311.  | 0.2  | 35        |
| 46 | Intellectually delicious. <i>Nature Physics</i> , 2010, 6, 160-161.   | 16.7 | 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. | 2.1  | 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, .  | 2.5  | 72        |
| 50 | Measurements of non local weak values. <i>Journal of Physics: Conference Series</i> , 2009, 174, 012004.  | 0.4  | 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.  | 27.8 | 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.                       | 2.1  | 39        |
| 58 | Quantum-mechanical realization of a Popescu-Rohrlich box. <i>Physical Review A</i> , 2007, 75, .  | 2.5  | 64        |
| 59 | Backward evolving quantum states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 3275-3284.                      | 2.1  | 8         |
| 60 | NONLOCAL MEASUREMENTS IN THE TIME-SYMMETRIC QUANTUM MECHANICS. <i>International Journal of Modern Physics B</i> , 2006, 20, 1528-1535.  | 2.0  | 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. | 1.3  | 62        |
| 62 | Measurement of an integral of a classical field with a single quantum particle. <i>Physical Review A</i> , 2005, 71, .                  | 2.5  | 1         |
| 63 | Qubits versus Bits for Measuring an Integral of a Classical Field. <i>Physical Review Letters</i> , 2004, 92, 217902.                   | 7.8  | 9         |
| 64 | Correcting quantum errors with the Zeno effect. <i>Physical Review A</i> , 2004, 69, .  | 2.5  | 15        |
| 65 | The Meaning of the Interaction-Free Measurements. <i>Foundations of Physics</i> , 2003, 33, 491-510.                                    | 1.3  | 42        |
| 66 | Instantaneous measurements of nonlocal variables. <i>Journal of Modern Optics</i> , 2003, 50, 943-949.                                  | 1.3  | 3         |
| 67 | Instantaneous Measurement of Nonlocal Variables. <i>Physical Review Letters</i> , 2003, 90, 010402.                                     | 7.8  | 58        |
| 68 | Instantaneous measurements of nonlocal variables. <i>Journal of Modern Optics</i> , 2003, 50, 943-949.                                  | 1.3  | 1         |
| 69 | MEASUREMENTS OF NONLOCAL VARIABLES. , 2003, , .   |      | 0         |
| 70 | The Two-State Vector Formalism of Quantum Mechanics. , 2002, , 369-412.   |      | 38        |
| 71 | An Impossible Necklace. , 2002, , 221-223.  |      | 1         |
| 72 | Nonlocal variables with product-state eigenstates. <i>Journal of Physics A</i> , 2001, 34, 6881-6889.                                   | 1.6  | 50        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Tests of Bell inequalities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 286, 241-244.   | 2.1 | 27        |
| 74 | Are interaction-free measurements interaction free?. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf  | 0.6 | 5         |
| 75 | Quantum Gambling. Physical Review Letters, 1999, 82, 3356-3359.  | 7.8 | 89        |
| 76 | Methods for reliable teleportation. Physical Review A, 1999, 59, 116-125.  | 2.5 | 227       |
| 77 | The Meaning of Elements of Reality and Quantum Counterfactuals: Reply to Kastner. Foundations of Physics, 1999, 29, 865-876.   | 1.3 | 11        |
| 78 | Time-Symmetrized Counterfactuals in Quantum Theory. Foundations of Physics, 1999, 29, 755-765.   | 1.3 | 15        |
| 79 | Variations on the Theme of the Greenberger-Horne-Zeilinger Proof. Foundations of Physics, 1999, 29, 615-630.   | 1.3 | 51        |
| 80 | Teleportation: Dream or reality?. , 1999, , .  |     | 7         |
| 81 | Time-Symmetrized Quantum Theory. Fortschritte Der Physik, 1998, 46, 729-739.   | 4.4 | 8         |
| 82 | On schizophrenic experiences of the neutron or why we should believe in the manyâ€ˆworlds interpretation of quantum theory. International Studies in the Philosophy of Science, 1998, 12, 245-261. | 0.2 | 114       |
| 83 | Validity of the Aharonov-Bergmann-Lebowitz rule. Physical Review A, 1998, 57, 2251-2253.   | 2.5 | 12        |
| 84 | Strict bounds on the Franson inequality. Physical Review A, 1998, 57, 1583-1585.   | 2.5 | 5         |
| 85 | On the Two-State Vector Reformulation of Quantum Mechanics. Physica Scripta, 1998, T76, 85.  | 2.5 | 13        |
| 86 | Protective Measurements of Two-State Vectors. Boston Studies in the Philosophy and History of Science, 1997, , 1-8.  | 0.9 | 9         |
| 87 | The meaning of protective measurements. Foundations of Physics, 1996, 26, 117-126.   | 1.3 | 44        |
| 88 | Weak-measurement elements of reality. Foundations of Physics, 1996, 26, 895-906.   | 1.3 | 86        |
| 89 | Error prevention scheme with four particles. Physical Review A, 1996, 54, R1745-R1748.   | 2.5 | 77        |
| 90 | Applications of a simple quantum mechanical formula. American Journal of Physics, 1996, 64, 1059-1060.   | 0.7 | 10        |

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|-----|--|-----|-----------|
| 91  | Goldenberg and Vaidman Reply: Physical Review Letters, 1996, 77, 3265-3265.  | 7.8 | 20        |
| 92  | 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         |
| 93  | Interference and transmission of quantum fluxons through a Josephson ring. Physical Review A, 1995, 52, 3541-3545.   | 2.5 | 6         |
| 94  | Nonlocality of a Single Photon Revisited Again. Physical Review Letters, 1995, 75, 2063-2063.  | 7.8 | 41        |
| 95  | There is no classical analog of a quantum time-translation machine. Physical Review A, 1995, 52, 4297-4298.  | 2.5 | 0         |
| 96  | Protective Measurements. Annals of the New York Academy of Sciences, 1995, 755, 361-373.   | 3.8 | 11        |
| 97  | Negative Kinetic Energy between Past and Future State Vectors. Annals of the New York Academy of Sciences, 1995, 755, 394-399.                                     | 3.8 | 6         |
| 98  | 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.                         | 3.8 | 0         |
| 99  | Two interferometric complementarities. Physical Review A, 1995, 51, 54-67.   | 2.5 | 338       |
| 100 | Quantum Cryptography Based on Orthogonal States. Physical Review Letters, 1995, 75, 1239-1243.   | 7.8 | 262       |
| 101 | Protective Measurements. NATO ASI Series Series B: Physics, 1995, , 355-356.   | 0.2 | 2         |
| 102 | Nonlocal Measurements and Teleportation of Quantum States. , 1995, , 347-356.  |     | 1         |
| 103 | Weak Measurements. NATO ASI Series Series B: Physics, 1995, , 357-373.   | 0.2 | 0         |
| 104 | Aharonov-Bohm and Berry Phases for a Quantum Cloud of Charge. Physical Review Letters, 1994, 73, 918-921.  | 7.8 | 36        |
| 105 | Causality constraints on nonlocal quantum measurements. Physical Review A, 1994, 49, 4331-4338.  | 2.5 | 42        |
| 106 | Teleportation of quantum states. Physical Review A, 1994, 49, 1473-1476.   | 2.5 | 747       |
| 107 | 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        |
| 108 | Measurement of the Schrödinger wave of a single particle. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 178, 38-42.                   | 2.1 | 123       |

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|-----|--|-----|-----------|
| 109 | Is it possible to know about something without ever interacting with it?. <i>New Astronomy Reviews</i> , 1993, 37, 253-256.  | 0.3 | 0         |
| 110 | Quantum mechanical interaction-free measurements. <i>Foundations of Physics</i> , 1993, 23, 987-997.   | 1.3 | 605       |
| 111 | Meaning of the wave function. <i>Physical Review A</i> , 1993, 47, 4616-4626.  | 2.5 | 240       |
| 112 | Lorentz-invariant elements of reality and the joint measurability of commuting observables. <i>Physical Review Letters</i> , 1993, 70, 3369-3372.                    | 7.8 | 52        |
| 113 | Measurements, errors, and negative kinetic energy. <i>Physical Review A</i> , 1993, 48, 4084-4090.   | 2.5 | 74        |
| 114 | Minimum time for the evolution to an orthogonal quantum state. <i>American Journal of Physics</i> , 1992, 60, 182-183.   | 0.7 | 147       |
| 115 | On some speculations about the state reductions of photons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 171, 438-440.         | 2.1 | 2         |
| 116 | A quantum time machine. <i>Foundations of Physics</i> , 1991, 21, 947-958.   | 1.3 | 12        |
| 117 | QUANTUM TIME MACHINE. , 1991, , .  |     | 0         |
| 118 | Weak measurement of photon polarization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 143, 357-361.                            | 2.1 | 24        |
| 119 | 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       |
| 120 | Properties of a quantum system during the time interval between two measurements. <i>Physical Review A</i> , 1990, 41, 11-20.  | 2.5 | 900       |
| 121 | Torque and force on a magnetic dipole. <i>American Journal of Physics</i> , 1990, 58, 978-983.   | 0.7 | 116       |
| 122 | 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        |
| 123 | Comment on Proposed Aharonov-Casher effect: Another example of an Aharonov-Bohm effect arising from a classical lag. <i>Physical Review A</i> , 1988, 37, 4052-4055. | 2.5 | 128       |
| 124 | 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     |
| 125 | How to ascertain the values of $\sigma_x$ , $\sigma_y$ , and $\sigma_z$ of a spin-1/2 particle. <i>Physical Review Letters</i> , 1987, 58, 1385-1387.                | 7.8 | 110       |
| 126 | Surprising quantum effects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 124, 199-203.   | 2.1 | 74        |



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|-----|--|-----|-----------|
| 127 | The Predictability of the Results of Measurements of Noncommuting Variables. Annals of the New York Academy of Sciences, 1986, 480, 620-621. | 3.8 | 1         |
| 128 | Measurement process in relativistic quantum theory. Physical Review D, 1986, 34, 1805-1813.  | 4.7 | 56        |
| 129 | Protective measurement of the wave function of a single system. , 0, , 15-27.  |     | 3         |
| 130 | The Bell Inequality and the Many-Worlds Interpretation. , 0, , 195-203.  |     | 2         |