# Harald Weinfurter

List of Publications by Year
in descending order

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| | | 9264 | 3323 |
|---|---|---|---|
| 239 | 35,444 | 74 | 184 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 243 | 243 | 243 | 12401 |
| all docs | docs citations | times ranked | citing authors |

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| 1 | Experimental quantum teleportation. Nature, 1997, 390, 575-579. | 27.8 | 4,321 |
| 2 | Elementary gates for quantum computation. Physical Review A, 1995, 52, 3457-3467. | 2.5 | 2,958 |
| 3 | New High-Intensity Source of Polarization-Entangled Photon Pairs. Physical Review Letters, 1995, 75, 4337-4341. | 7.8 | 2,612 |
| 4 | Stable Solid-State Source of Single Photons. Physical Review Letters, 2000, 85, 290-293. | 7.8 | 1,261 |
| 5 | Violation of Bell's Inequality under Strict Einstein Locality Conditions. Physical Review Letters, 1998, 81, 5039-5043. | 7.8 | 1,150 |
| 6 | Dense Coding in Experimental Quantum Communication. Physical Review Letters, 1996, 76, 4656-4659. | 7.8 | 1,111 |
| 7 | Experimental Entanglement Swapping: Entangling Photons That Never Interacted. Physical Review Letters, 1998, 80, 3891-3894. | 7.8 | 1,054 |
| 8 | Experimental one-way quantum computing. Nature, 2005, 434, 169-176. | 27.8 | 1,027 |
| 9 | Multiphoton entanglement and interferometry. Reviews of Modern Physics, 2012, 84, 777-838. | 45.6 | 1,007 |
| 10 | Experimental test of quantum nonlocality in three-photon Greenbergerâ€“Horneâ€“Zeilinger entanglement. Nature, 2000, 403, 515-519. | 27.8 | 1,003 |
| 11 | Observation of Three-Photon Greenberger-Horne-Zeilinger Entanglement. Physical Review Letters, 1999, 82, 1345-1349. | 7.8 | 894 |
| 12 | Entanglement-based quantum communication over 144â€‰km. Nature Physics, 2007, 3, 481-486. | 16.7 | 866 |
| 13 | Quantum Cryptography with Entangled Photons. Physical Review Letters, 2000, 84, 4729-4732. | 7.8 | 763 |
| 14 | The SECOQC quantum key distribution network in Vienna. New Journal of Physics, 2009, 11, 075001. | 2.9 | 619 |
| 15 | Experimental Demonstration of Free-Space Decoy-State Quantum Key Distribution over 144Âkm. Physical Review Letters, 2007, 98, 010504. | 7.8 | 589 |
| 16 | Interaction-Free Measurement. Physical Review Letters, 1995, 74, 4763-4766. | 7.8 | 493 |
| 17 | Realizable Universal Quantum Logic Gates. Physical Review Letters, 1995, 74, 4087-4090. | 7.8 | 463 |
| 18 | Quantum memories. European Physical Journal D, 2010, 58, 1-22. | 1.3 | 420 |

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| 19 | Secure Communication with a Publicly Known Key. Acta Physica Polonica A, 2002, 101, 357-368. | 0.5 | 378 |
| 20 | Fisher information and multiparticle entanglement. Physical Review A, 2012, 85, . | 2.5 | 376 |
| 21 | Experimental Detection of Multipartite Entanglement using Witness Operators. Physical Review Letters, 2004, 92, 087902. | 7.8 | 371 |
| 22 | Heralded Entanglement Between Widely Separated Atoms. Science, 2012, 337, 72-75. | 12.6 | 351 |
| 23 | A fast and compact quantum random number generator. Review of Scientific Instruments, 2000, 71, 1675-1680. | 1.3 | 339 |
| 24 | Experimental Realization of a Three-Qubit EntangledWState. Physical Review Letters, 2004, 92, 077901. | 7.8 | 321 |
| 25 | Complementarity and the Quantum Eraser. Physical Review Letters, 1995, 75, 3034-3037. | 7.8 | 289 |
| 26 | A step towards global key distribution. Nature, 2002, 419, 450-450. | 27.8 | 282 |
| 27 | Event-Ready Bell Test Using Entangled Atoms Simultaneously Closing Detection and Locality Loopholes. Physical Review Letters, 2017, 119, 010402. | 7.8 | 278 |
| 28 | Observation of Entanglement of a Single Photon with a Trapped Atom. Physical Review Letters, 2006, 96, 030404. | 7.8 | 276 |
| 29 | Three-Particle Entanglements from Two Entangled Pairs. Physical Review Letters, 1997, 78, 3031-3034. | 7.8 | 275 |
| 30 | Single photon emission from SiV centres in diamond produced by ion implantation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 37-41. | 1.5 | 251 |
| 31 | Complete Deterministic Linear Optics Bell State Analysis. Physical Review Letters, 2006, 96, 190501. | 7.8 | 246 |
| 32 | Embedded Bell-state analysis. Physical Review A, 1998, 58, R2623-R2626. | 2.5 | 245 |
| 33 | Linear Optics Controlled-Phase Gate Made Simple. Physical Review Letters, 2005, 95, 210505. | 7.8 | 244 |
| 34 | Air-to-ground quantum communication. Nature Photonics, 2013, 7, 382-386. | 31.4 | 243 |
| 35 | Experimental Analysis of a Four-Qubit Photon Cluster State. Physical Review Letters, 2005, 95, 210502. | 7.8 | 238 |
| 36 | Experimental Entanglement of a Six-Photon Symmetric Dicke State. Physical Review Letters, 2009, 103, 020504. | 7.8 | 211 |

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| 37 | High-efficiency entangled photon pair collection in type-II parametric fluorescence. Physical Review A, 2001, 64, . | 2.5 | 203 |
| 38 | Experimental Observation of Four-Photon Entangled Dicke State with High Fidelity. Physical Review Letters, 2007, 98, 063604. | 7.8 | 187 |
| 39 | Entangling Photons Radiated by Independent Pulsed Sourcesa. Annals of the New York Academy of Sciences, 1995, 755, 91-102. | 3.8 | 184 |
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| 41 | Practical quantum key distribution with polarization entangled photons. Optics Express, 2004, 12, 3865. | 3.4 | 178 |
| 42 | Decoherence-Free Quantum Information Processing with Four-Photon Entangled States. Physical Review Letters, 2004, 92, 107901. | 7.8 | 175 |
| 43 | Experimental Single Qubit Quantum Secret Sharing. Physical Review Letters, 2005, 95, 230505. | 7.8 | 172 |
| 44 | Remote Preparation of an Atomic Quantum Memory. Physical Review Letters, 2007, 98, 050504. | 7.8 | 167 |
| 45 | Permutationally Invariant Quantum Tomography. Physical Review Letters, 2010, 105, 250403. | 7.8 | 157 |
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| 47 | Experimental Observation of Four-Photon Entanglement from Parametric Down-Conversion. Physical Review Letters, 2003, 90, 200403. | 7.8 | 155 |
| 48 | Quantum eavesdropping without interception: an attack exploiting the dead time of single-photon detectors. New Journal of Physics, 2011, 13, 073024. | 2.9 | 155 |
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| 50 | Frustrated two-photon creation via interference. Physical Review Letters, 1994, 72, 629-632. | 7.8 | 148 |
| 51 | Challenging local realism with human choices. Nature, 2018, 557, 212-216. | 27.8 | 136 |
| 52 | High speed optical quantum random number generation. Optics Express, 2010, 18, 13029. | 3.4 | 131 |
| 53 | Feasible â€œKochen-Speckerâ€•Experiment with Single Particles. Physical Review Letters, 2000, 85, 1783-1786. | 7.8 | 123 |
| 54 | Interferometric Bell-state analysis. Physical Review A, 1996, 53, R1209-R1212. | 2.5 | 120 |

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| 55 | Experimental Demonstration of Four-Party Quantum Secret Sharing. Physical Review Letters, 2007, 98, 020503. | 7.8 | 120 |
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| 60 | Nondispersive phase of the Aharonov-Bohm effect. Physical Review Letters, 1993, 71, 307-311. | 7.8 | 107 |
| 61 | Tapered fiber coupling of single photons emitted by a deterministically positioned single nitrogen vacancy center. Applied Physics Letters, 2014, 104, 031101. | 3.3 | 105 |
| 62 | Quantum Seeing in the Dark. Scientific American, 1996, 275, 72-78. | 1.0 | 104 |
| 63 | Experiments towards Falsification of Noncontextual Hidden Variable Theories. Physical Review Letters, 2000, 84, 5457-5461. | 7.8 | 102 |
| 64 | Quest for Ghz States. Acta Physica Polonica A, 1998, 93, 187-195. | 0.5 | 101 |
| 65 | Useful Multiparticle Entanglement and Sub-Shot-Noise Sensitivity in Experimental Phase Estimation. Physical Review Letters, 2011, 107, 080504. | 7.8 | 95 |
| 66 | Information leakage via side channels in freespace BB84 quantum cryptography. New Journal of Physics, 2009, 11, 065001. | 2.9 | 91 |
| 67 | The breakdown flash of silicon avalanche photodiodes-back door for eavesdropper attacks?. Journal of Modern Optics, 2001, 48, 2039-2047. | 1.3 | 88 |
| 68 | CubeSat quantum communications mission. EPJ Quantum Technology, 2017, 4, . | 6.3 | 86 |
| 69 | Systematic Errors in Current Quantum State Tomography Tools. Physical Review Letters, 2015, 114, 080403. | 7.8 | 82 |
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| 80 | Experimental Observation of an Entire Family of Four-Photon Entangled States. Physical Review Letters, 2008, 101, 010503. | 7.8 | 62 |
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| 92 | Design and Evaluation of a Handheld Quantum Key Distribution Sender module. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 131-137. | 2.9 | 46 |
| 93 | Experimental quantum teleportation of arbitrary quantum states. Applied Physics B: Lasers and Optics, 1998, 67, 749-752. | 2.2 | 43 |
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| 108 | Generation of correlated photon pairs in type-II parametric down conversion–revisited. Journal of Modern Optics, 2001, 48, 1997-2007. | 1.3 | 32 |

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| 110 | Long-distance free-space quantum cryptography. , 2002, 4917, 25. | | 31 |
| 111 | Quantum teleportation and entanglement swapping with linear optics logic gates. New Journal of Physics, 2009, 11, 033008. | 2.9 | 31 |
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| 113 | Free space quantum key distribution: Towards a real life application. Fortschritte Der Physik, 2006, 54, 840-845. | 4.4 | 30 |
| 114 | Experimental Demonstration of a Quantum Protocol for Byzantine Agreement and Liar Detection. Physical Review Letters, 2008, 100, 070504. | 7.8 | 30 |
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| 116 | Multipartite entanglement analysis from random correlations. Npj Quantum Information, 2020, 6, . | 6.7 | 30 |
| 117 | Three-photon W-state. Journal of Modern Optics, 2003, 50, 1131-1138. | 1.3 | 29 |
| 118 | Highly Efficient State-Selective Submicrosecond Photoionization Detection of Single Atoms. Physical Review Letters, 2010, 105, 253001. | 7.8 | 29 |
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| 123 | Experimental quantum teleportation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 1733-1737. | 3.4 | 25 |
| 124 | Cavity-enhanced generation of polarization-entangled photon pairs. Optics Communications, 2000, 183, 133-137. | 2.1 | 25 |
| 125 | Compact all-solid-state source of polarization-entangled photon pairs. Applied Physics Letters, 2001, 79, 869-871. | 3.3 | 25 |
| 126 | Multipartite Entanglement Detection with Minimal Effort. Physical Review Letters, 2016, 117, 210504. | 7.8 | 24 |

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| 129 | Spatial Mode Side Channels in Free-Space QKD Implementations. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 187-191. | 2.9 | 22 |
| 130 | Genuine Multipartite Entanglement without Multipartite Correlations. Physical Review Letters, 2015, 114, 180501. | 7.8 | 22 |
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| 133 | Loophole-free Bell test with one atom and less than one photon on average. Physical Review A, 2011, 84, . | 2.5 | 19 |
| 134 | On the field-dependent magnetic structures of CsCuCl3. Journal of Physics Condensed Matter, 1994, 6, 10105-10119. | 1.8 | 18 |
| 135 | Generation of correlated photon pairs in type-II parametric down conversionâ€”revisited. Journal of Modern Optics, 2001, 48, 1997-2007. | 1.3 | 18 |
| 136 | Ascertaining the Values ofÏƒx,Ïƒy, andÏƒzof a Polarization Qubit. Physical Review Letters, 2003, 90, 177901. | 7.8 | 18 |
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| 139 | Inelastic neutron scattering measurements on Nd2Fe14B single crystals. Journal of Magnetism and Magnetic Materials, 1991, 97, 210-218. | 2.3 | 17 |
| 140 | Inelastic neutron scattering measurements on Nd2Fe14B and Y2Fe14B single crystals. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1295-1297. | 2.3 | 17 |
| 141 | Broadband spin inversion of cold and thermal neutrons by improved radio frequency gradient flippers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 275, 233-238. | 1.6 | 16 |
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| 143 | Operational multipartite entanglement classes for symmetric photonic qubit states. Physical Review A, 2010, 81, . | 2.5 | 16 |
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| 145 | Coherence of a qubit stored in Zeeman levels of a single optically trapped atom. Physical Review A, 2011, 84, . | 2.5 | 15 |
| 146 | An Improved Experiment to Determine the â€˜Past of a Particleâ€™ in the Nested Machâ€“Zehnder Interferometer. Chinese Physics Letters, 2017, 34, 020301. | 3.3 | 15 |
| 147 | Neutron-diffraction studies of the nuclear magnetic phase diagram of copper. Physical Review B, 1992, 45, 7772-7788. | 3.2 | 14 |
| 148 | Quantum Communication with Entangled Photons. Advances in Atomic, Molecular and Optical Physics, 2000, 42, 489-533. | 2.3 | 14 |
| 149 | An atom and a photon. Laser Physics, 2007, 17, 1007-1016. | 1.2 | 13 |
| 150 | Is Haldane's singletâ€”triplet transition found in CsNiCl3?. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 809-810. | 2.3 | 11 |
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| 152 | Frustrated Downconversion: Virtual or Real Photons?a. Annals of the New York Academy of Sciences, 1995, 755, 61-72. | 3.8 | 10 |
| 153 | Independent Photons and Entanglement. A Short Overview. International Journal of Theoretical Physics, 1999, 38, 501-517. | 1.2 | 10 |
| 154 | Identification of nonclassical states in neutron spin precession experiments. Optics Communications, 2000, 179, 13-18. | 2.1 | 10 |
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| 156 | Ultrasound effects and neutron scattering in UPt3. Physica B: Condensed Matter, 1993, 186-188, 258-260. | 2.7 | 9 |
| 157 | Genuine <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> -partite entanglement without <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> -partite correlation functions. Physical Review A, 2017, 95, . | 2.5 | 9 |
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| 159 | Towards practical quantum cryptography. Applied Physics B: Lasers and Optics, 1999, 69, 389-393. | 2.2 | 8 |
| 160 | Experimental quantum secret sharing. Fortschritte Der Physik, 2006, 54, 831-839. | 4.4 | 8 |
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| 162 | Brillouin scattering and dynamical diffraction of entangled photon pairs. Physical Review A, 1995, 52, R2531-R2534. | 2.5 | 7 |

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| 163 | Quantum communications in space. , 2004, 5161, 240. | | 7 |
| 164 | Integrated quantum key distribution sender unit for daily-life implementations. Proceedings of SPIE, 2016, , . | 0.8 | 7 |
| 165 | Optimized state-independent entanglement detection based on a geometrical threshold criterion. Physical Review A, 2013, 88, . | 2.5 | 6 |
| 166 | Three-photon W-state. Journal of Modern Optics, 2003, 50, 1131-1138. | 1.3 | 6 |
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| 170 | Air to ground quantum key distribution. Proceedings of SPIE, 2012, , . | 0.8 | 5 |
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| 173 | Stratospheric QKD: feasibility analysis and free-space optics system concept. , 2019, , . | | 4 |
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| 177 | Interaction-Free Measurement of a Quantum Object: On the Breeding of â€œSchrÃ¶dinger Catsâ€• , 1996, , 673-674. | | 3 |
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