

Gregor Weihs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112 papers	9,385 citations	35 h-index	96 g-index
159 ext. papers	10,876 ext. citations	7.3 avg, IF	5.78 L-index

#	Paper	IF	Citations
112	Demonstration and modeling of time-bin entangled photons from a quantum dot in a nanowire. <i>AIP Advances</i> , 2022 , 12, 055115	1.5	1
111	Symmetry Allows for Distinguishability in Totally Destructive Many-Particle Interference. <i>PRX Quantum</i> , 2021 , 2,	6.1	2
110	Understanding photoluminescence in semiconductor Bragg-reflection waveguides. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 035801	1.7	3
109	Difference-frequency generation in an AlGaAs Bragg-reflection waveguide using an on-chip electrically-pumped quantum dot laser. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 085802	1.7	1
108	Optical Stark shift to control the dark exciton occupation of a quantum dot in a tilted magnetic field. <i>Physical Review B</i> , 2021 , 104,	3.3	1
107	Towards probing for hypercomplex quantum mechanics in a waveguide interferometer. <i>New Journal of Physics</i> , 2021 , 23, 093038	2.9	0
106	Approaching the Tsirelson bound with a Sagnac source of polarization-entangled photons. <i>SciPost Physics</i> , 2021 , 10,	6.1	2
105	Optimizing the spectro-temporal properties of photon pairs from Bragg-reflection waveguides. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 054001	1.7	3
104	Photon-number parity of heralded single photons from a Bragg-reflection waveguide reconstructed loss-tolerantly via moment generating function. <i>New Journal of Physics</i> , 2019 , 21, 103025	2.9	2
103	Semi-automatic engineering and tailoring of high-efficiency Bragg-reflection waveguide samples for quantum photonic applications. <i>Quantum Science and Technology</i> , 2018 , 3, 024002	5.5	7
102	Invited Article: Time-bin entangled photon pairs from Bragg-reflection waveguides. <i>APL Photonics</i> , 2018 , 3, 080804	5.2	10
101	Totally Destructive Many-Particle Interference. <i>Physical Review Letters</i> , 2018 , 120, 240404	7.4	19
100	Totally destructive interference for permutation-symmetric many-particle states. <i>Physical Review A</i> , 2018 , 97,	2.6	12
99	Hyperentanglement of Photons Emitted by a Quantum Dot. <i>Physical Review Letters</i> , 2018 , 121, 110503	7.4	30
98	Space QUEST mission proposal: experimentally testing decoherence due to gravity. <i>New Journal of Physics</i> , 2018 , 20, 063016	2.9	20
97	Obtaining tight bounds on higher-order interferences with a 5-path interferometer. <i>New Journal of Physics</i> , 2017 , 19, 033017	2.9	27
96	A solid state source of photon triplets based on quantum dot molecules. <i>Nature Communications</i> , 2017 , 8, 15716	17.4	28

95	Observation of Genuine Three-Photon Interference. <i>Physical Review Letters</i> , 2017 , 118, 153602	7.4	48
94	Many-body quantum interference on hypercubes. <i>Quantum Science and Technology</i> , 2017 , 2, 015003	5.5	19
93	Interfacing a quantum dot with a spontaneous parametric down-conversion source. <i>Quantum Science and Technology</i> , 2017 , 2, 034016	5.5	3
92	Many-particle interference in a two-component bosonic Josephson junction: an all-optical simulation. <i>New Journal of Physics</i> , 2017 , 19, 125015	2.9	8
91	Observation of Genuine Three-Photon Interference 2017 ,		2
90	Hyper-Entanglement of Photons Emitted by a Quantum Dot 2017 ,		1
89	Temporally versatile polarization entanglement from Bragg reflection waveguides. <i>Optics Letters</i> , 2017 , 42, 2102-2105	3	10
88	Time-Bin Entanglement from Quantum Dots. <i>Nano-optics and Nanophotonics</i> , 2017 , 267-284	0	1
87	An Early Long-Distance Quantum Experiment. <i>The Frontiers Collection</i> , 2017 , 425-432	0.3	
86	Coherence and degree of time-bin entanglement from quantum dots. <i>Physical Review B</i> , 2016 , 93,	3.3	16
85	Universal Sign Control of Coupling in Tight-Binding Lattices. <i>Physical Review Letters</i> , 2016 , 116, 213901	7.4	41
84	Implementation of quantum and classical discrete fractional Fourier transforms. <i>Nature Communications</i> , 2016 , 7, 11027	17.4	54
83	Effects of photo-neutralization on the emission properties of quantum dots. <i>Optics Express</i> , 2016 , 24, 21794-801	3.3	2
82	Hybrid waveguide-bulk multi-path interferometer with switchable amplitude and phase. <i>APL Photonics</i> , 2016 , 1, 081302	5.2	8
81	Uncovering dispersion properties in semiconductor waveguides to study photon-pair generation. <i>Nanotechnology</i> , 2016 , 27, 434003	3.4	8
80	Liquid-nitrogen cooled, free-running single-photon sensitive detector at telecommunication wavelengths. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 118, 489-495	1.9	2
79	Foucault's method for measuring the speed of light with modern apparatus. <i>European Journal of Physics</i> , 2015 , 36, 035013	0.8	5
78	Direct measurement of second-order coupling in a waveguide lattice. <i>Applied Physics Letters</i> , 2015 , 107, 241104	3.4	14

77	Broadband indistinguishability from bright parametric downconversion in a semiconductor waveguide. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 125201	1.7	14
76	Optimal excitation conditions for indistinguishable photons from quantum dots. <i>New Journal of Physics</i> , 2015 , 17, 123025	2.9	21
75	Polarization entanglement generation in microcavity polariton devices. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1749-1756	1.3	4
74	Mode-resolved Fabry-Perot experiment in low-loss Bragg-reflection waveguides. <i>Optics Express</i> , 2015 , 23, 33608-21	3.3	10
73	Experimental three-photon quantum nonlocality under strict locality conditions. <i>Nature Photonics</i> , 2014 , 8, 292-296	33.9	72
72	Time-bin entangled photons from a quantum dot. <i>Nature Communications</i> , 2014 , 5, 4251	17.4	88
71	Rayleigh scattering in coupled microcavities: theory. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 485308		
70	Generation of hyper-entangled photon pairs in coupled microcavities. <i>New Journal of Physics</i> , 2014 , 16, 063030	2.9	16
69	Efficiency vs. multi-photon contribution test for quantum dots. <i>Optics Express</i> , 2014 , 22, 4789-98	3.3	31
68	Quantum non-Gaussian Depth of Single-Photon States. <i>Physical Review Letters</i> , 2014 , 113, 223603	7.4	40
67	Polarization entangled photons from quantum dots embedded in nanowires. <i>Nano Letters</i> , 2014 , 14, 7107-14	11.5	60
66	An experimental implementation of oblivious transfer in the noisy storage model. <i>Nature Communications</i> , 2014 , 5, 3418	17.4	31
65	Measurement and modeling of the nonlinearity of photovoltaic and Geiger-mode photodiodes. <i>Review of Scientific Instruments</i> , 2014 , 85, 063102	1.7	8
64	QEYSSAT: a mission proposal for a quantum receiver in space 2014 ,		15
63	Measurement and modification of biexciton-exciton time correlations. <i>Optics Express</i> , 2013 , 21, 9890-8	3.3	11
62	Deterministic photon pairs and coherent optical control of a single quantum dot. <i>Physical Review Letters</i> , 2013 , 110, 135505	7.4	92
61	Inherent polarization entanglement generated from a monolithic semiconductor chip. <i>Scientific Reports</i> , 2013 , 3, 2314	4.9	57
60	Studying free-space transmission statistics and improving free-space quantum key distribution in the turbulent atmosphere. <i>New Journal of Physics</i> , 2012 , 14, 123018	2.9	44

59	Monolithic source of photon pairs. <i>Physical Review Letters</i> , 2012 , 108, 153605	7.4	79
58	Experimental Implementation of Oblivious Transfer in the Noisy Storage Model 2012 ,		1
57	Testing Born's Rule in Quantum Mechanics for Three Mutually Exclusive Events. <i>Foundations of Physics</i> , 2012 , 42, 742-751	1.2	32
56	Preface of the Special Issue Quantum Foundations: Theory and Experiment. <i>Foundations of Physics</i> , 2012 , 42, 721-724	1.2	7
55	Pulsed Sagnac source of polarization entangled photon pairs. <i>Optics Express</i> , 2012 , 20, 25022-9	3.3	28
54	Multi-dimensional laser spectroscopy of exciton polaritons with spatial light modulators. <i>Applied Physics Letters</i> , 2012 , 100, 072109	3.4	1
53	Improving entangled free-space quantum key distribution in the turbulent atmosphere 2011 ,		1
52	Quantum entanglement distribution with 810 nm photons through telecom fibers. <i>Applied Physics Letters</i> , 2010 , 97, 031117	3.4	10
51	Ruling out multi-order interference in quantum mechanics. <i>Science</i> , 2010 , 329, 418-21	33.3	113
50	Bestätigung von Bornsche Regel. <i>Physik in Unserer Zeit</i> , 2010 , 41, 267-268	0.1	
49	Entanglement Based Quantum Key Distribution Using a Bright Sagnac Entangled Photon Source. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2010 , 108-116	0.2	5
48	Cluster-state quantum computing enhanced by high-fidelity generalized measurements. <i>Physical Review Letters</i> , 2009 , 103, 240504	7.4	27
47	Entangled quantum key distribution with a biased basis choice. <i>New Journal of Physics</i> , 2009 , 11, 045025	2.9	15
46	Coherence measures for heralded single-photon sources. <i>Physical Review A</i> , 2009 , 79,	2.6	42
45	Characterizing heralded single-photon sources with imperfect measurement devices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 114013	1.3	26
44	Space-quest, experiments with quantum entanglement in space. <i>Europhysics News</i> , 2009 , 40, 26-29	0.2	60
43	Testing Born's Rule in Quantum Mechanics with a Triple Slit Experiment 2009 ,		16
42	Loopholes in Experiments 2009 , 348-355		1

41	Multiple quantum well AlGaAs nanowires. <i>Nano Letters</i> , 2008 , 8, 495-9	11.5	25
40	Entangled quantum key distribution over two free-space optical links. <i>Optics Express</i> , 2008 , 16, 16840-53,3	3.3	58
39	Growth and characterization of GaAs nanowires on carbon nanotube composite films: toward flexible nanodevices. <i>Nano Letters</i> , 2008 , 8, 4075-80	11.5	19
38	Entanglement based free-space quantum key distribution 2008 ,		1
37	Self-directed growth of AlGaAs core-shell nanowires for visible light applications. <i>Nano Letters</i> , 2007 , 7, 2584-9	11.5	66
36	Entangled free-space quantum key distribution 2007 ,		1
35	A Test of Bell's Inequality with Spacelike Separation. <i>AIP Conference Proceedings</i> , 2007 ,	0	3
34	PARAMETRIC DOWN-CONVERSION IN PHOTONIC CRYSTAL WAVEGUIDES. <i>International Journal of Modern Physics B</i> , 2006 , 20, 1543-1550	1.1	4
33	Experimental quantum cryptography with qutrits. <i>New Journal of Physics</i> , 2006 , 8, 75-75	2.9	273
32	Happy centenary, photon. <i>Nature</i> , 2005 , 433, 230-8	50.4	80
31	Polariton lasing in a microcavity. <i>Physica Status Solidi A</i> , 2004 , 201, 625-632		16
30	Semiconductor microcavity as a spin-dependent optoelectronic device. <i>Physical Review B</i> , 2004 , 70,	3.3	63
29	Comment on Exclusion of time in the theorem of Bell by K. Hess and W. Philipp. <i>Europhysics Letters</i> , 2003 , 61, 282-283	1.6	11
28	Photon Statistics and Quantum Teleportation Experiments. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 168-173	1.5	3
27	Experimental extract and empirical formulas of refractive indices of GaAs and AlAs at high temperature by HRXRD and optical reflectivity measurement. <i>Journal of Crystal Growth</i> , 2003 , 251, 777-781	1.6	5
26	Experimental entanglement purification of arbitrary unknown states. <i>Nature</i> , 2003 , 423, 417-22	50.4	364
25	Polariton lasing vs. photon lasing in a semiconductor microcavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 15318-23	11.5	301
24	Exciton-polariton lasing in a microcavity. <i>Semiconductor Science and Technology</i> , 2003 , 18, S386-S394	1.8	22

23	Probabilistic instantaneous quantum computation. <i>Physical Review A</i> , 2003 , 67,	2.6	8
22	Concentration of higher dimensional entanglement: qutrits of photon orbital angular momentum. <i>Physical Review Letters</i> , 2003 , 91, 227902	7.4	205
21	Experimental nonlocality proof of quantum teleportation and entanglement swapping. <i>Physical Review Letters</i> , 2002 , 88, 017903	7.4	177
20	Cloning of symmetric d-level photonic states in physical systems. <i>Physical Review A</i> , 2002 , 66,	2.6	11
19	Superpositions of the orbital angular momentum for applications in quantum experiments. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002 , 4, S47-S51		145
18	No time loophole in Bell's theorem: the Hess-Philipp model is nonlocal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 14632-5	11.5	20
17	Experimental two-photon, three-dimensional entanglement for quantum communication. <i>Physical Review Letters</i> , 2002 , 89, 240401	7.4	451
16	Quantum Dots: Multidimensional Quantum States of the Angular. <i>Optics and Photonics News</i> , 2002 , 13, 54	1.9	10
15	Condensation of semiconductor microcavity exciton polaritons. <i>Science</i> , 2002 , 298, 199-202	33.3	598
14	Bell's Theorem for Space-Like Separation 2002 , 155-162		
13	Entanglement of the orbital angular momentum states of photons. <i>Nature</i> , 2001 , 412, 313-6	50.4	2102
12	Experimental demonstration of four-photon entanglement and high-fidelity teleportation. <i>Physical Review Letters</i> , 2001 , 86, 4435-8	7.4	430
11	Photonic entanglement for fundamental tests and quantum communication. <i>Quantum Information and Computation</i> , 2001 , 1, 3-56	0.9	215
10	Optimal photon cloning. <i>Physical Review A</i> , 2000 , 62,	2.6	25
9	Quantum cryptography with entangled photons. <i>Physical Review Letters</i> , 2000 , 84, 4729-32	7.4	608
8	Optimal quantum cloning via stimulated emission. <i>Physical Review Letters</i> , 2000 , 84, 2993-6	7.4	128
7	A fast and compact quantum random number generator. <i>Review of Scientific Instruments</i> , 2000 , 71, 1675-1680	1.6	265
6	Optimal quantum cloning and universal NOT without quantum gates. <i>Journal of Modern Optics</i> , 2000 , 47, 233-246	1.1	13

5	High-Efficiency Quantum Interrogation Measurements via the Quantum Zeno Effect. <i>Physical Review Letters</i> , 1999 , 83, 4725-4728	7.4	136
4	A Bell Experiment under Strict Einstein Locality Conditions 1999 , 267-269		
3	Violation of Bell's Inequality under Strict Einstein Locality Conditions. <i>Physical Review Letters</i> , 1998 , 81, 5039-5043	7.4	923
2	All-fiber three-path Mach-Zehnder interferometer. <i>Optics Letters</i> , 1996 , 21, 302-4	3	64
1	Two-photon interference in optical fiber multiports. <i>Physical Review A</i> , 1996 , 54, 893-897	2.6	32