

# Ondřej Haderka

## List of Publications by Year in descending order

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82  
papers

1,396  
citations

304368

22  
h-index

344852

36  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1032  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonclassicality criteria for $N$ -dimensional optical fields detected by quadratic detectors. Physical Review A, 2022, 105, .	1.0	3
2	Two-beam light with simultaneous anticorrelations in photon-number fluctuations and sub-Poissonian statistics. Physical Review A, 2021, 104, .	1.0	4
3	Two-beam light with checked-pattern photon-number distributions. Optics Express, 2021, 29, 29704.	1.7	3
4	Experimental Quantification of the Entanglement of Noisy Twin Beams. Physical Review Applied, 2020, 14, .	1.5	9
5	Nonclassicality and entanglement criteria for bipartite optical fields characterized by quadratic detectors. II. Criteria based on probabilities. Physical Review A, 2020, 102, .	1.0	14
6	Waves in intensity coherence of evolving intense twin beams. Physical Review A, 2020, 101, .	1.0	1
7	Non-classicality of optical fields as observed in photocount and photon-number distributions. Optics Express, 2020, 28, 32620.	1.7	5
8	Simultaneous observation of higher-order non-classicalities based on experimental photocount moments and probabilities. Scientific Reports, 2019, 9, 8961.	1.6	15
9	Reconstruction of Joint Photon-Number Distributions of Twin Beams Incorporating Spatial Noise Reduction. Physical Review Applied, 2018, 10, .	1.5	2
10	Initiation of air ionization by ultrashort laser pulses: evidence for a role of metastable-state air molecules. Journal Physics D: Applied Physics, 2018, 51, 25LT02.	1.3	9
11	Higher-order sub-Poissonian-like nonclassical fields: Theoretical and experimental comparison. Physical Review A, 2017, 96, .	1.0	31
12	Nonclassicality and entanglement criteria for bipartite optical fields characterized by quadratic detectors. Physical Review A, 2017, 96, .	1.0	28
13	$\text{Fe}_2\text{O}_3/\text{TiO}_2$ 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. Nanoscale, 2017, 9, 134-142.	2.8	97
14	Noise Reduction in Photon Counting by Exploiting Spatial Correlations. Physical Review Applied, 2017, 8, .	1.5	2
15	Propagation of the twin-beam state from the near field to the far field. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2406.	0.9	0
16	Experimental detection of nonclassicality of single-mode fields via intensity moments. Optics Express, 2016, 24, 29496.	1.7	15
17	Directly grown $\text{TiO}_2$ nanotubes on carbon nanofibers for photoelectrochemical water splitting. MRS Advances, 2016, 1, 3145-3150.	0.5	1
18	Ultrashort pulse laser ablation of dielectrics: Thresholds, mechanisms, role of breakdown. Scientific Reports, 2016, 6, 39133.	1.6	110

#	ARTICLE	IF	CITATIONS
19	Entanglement and nonclassicality in four-mode Gaussian states generated via parametric down-conversion and frequency up-conversion. Scientific Reports, 2016, 6, 33802.	1.6	4
20	Internal dynamics of intense twin beams and their coherence. Scientific Reports, 2016, 6, 22320.	1.6	14
21	Ultrashort-pulse laser processing of transparent materials: insight from numerical and semi-analytical models. Proceedings of SPIE, 2016, , .	0.8	7
22	Spatial and spectral coherence in propagating high-intensity twin beams. Scientific Reports, 2015, 5, 14365.	1.6	8
23	Joint International Physics Summer School: Optics. Proceedings of SPIE, 2015, , .	0.8	0
24	Evolution of spatio-spectral coherence properties of twin beam states in the high-gain regime. , 2015, , .		1
25	Effects of pump depletion on spatial and spectral properties of parametric down-conversion. , 2015, , .		2
26	Spectral coherence of twin beams by single-shot measurements with a fiber spectrometer. Proceedings of SPIE, 2015, , .	0.8	0
27	Generation of sub-Poissonian non-Gaussian states from multimode twin beams by photon-number-resolving detectors. International Journal of Quantum Information, 2014, 12, 1461017.	0.6	5
28	Photon-number statistics of twin beams: Self-consistent measurement, reconstruction, and properties. , 2014, , .		0
29	Photon-number-resolving detectors for quantum-state engineering: Introduction to the feature issue. Journal of the Optical Society of America B: Optical Physics, 2014, 31, PNR1.	0.9	2
30	Optimal sub-Poissonian light generation from twin beams by photon-number resolving detectors. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 20.	0.9	38
31	Generation of sub-Poissonian non-Gaussian states from multimode twin beams by photon-number-resolving detectors. , 2014, , .		0
32	Spatial properties of twin-beam correlations at low- to high-intensity transition. Optics Express, 2014, 22, 13374.	1.7	22
33	Absolute spectral calibration of an intensified CCD camera using twin beams. Journal of the Optical Society of America B: Optical Physics, 2014, 31, B1.	0.9	9
34	Coherence properties of high-gain twin beams. Physical Review A, 2014, 90, .	1.0	37
35	Absolute calibration of photon-number-resolving detectors with an analog output using twin beams. Applied Physics Letters, 2014, 104, .	1.5	23
36	Luminescence-induced noise in single photon sources based on BBO crystals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 215501.	0.6	3

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37	Spatio-spectral characterization of twin-beam states of light for quantum state engineering. International Journal of Quantum Information, 2014, 12, 1560027.	0.6	6
38	Spatial and spectral properties of fields generated by pulsed second-harmonic generation in a periodically poled potassium-titanyl-phosphate waveguide. Physical Review A, 2013, 87, .	1.0	11
39	State reconstruction of a multimode twin beam using photodetection. Physical Review A, 2013, 87, .	1.0	40
40	Sub-Poissonian-light generation by postselection from twin beams. Optics Express, 2013, 21, 19387.	1.7	24
41	Characterizing the nonclassicality of mesoscopic optical twin-beam states. Physical Review A, 2013, 88, .	1.0	27
42	Absolute detector calibration using twin beams. Optics Letters, 2012, 37, 2475.	1.7	38
43	Photon-number distributions of twin beams generated in spontaneous parametric down-conversion and measured by an intensified CCD camera. Physical Review A, 2012, 85, .	1.0	61
44	Generation of squeezed states by parametric fluorescence. , 2012, , .		0
45	Spatial and spectral properties of second harmonic generation in a periodically poled KTP waveguide. , 2012, , .		0
46	Correlations in far field of photons emitted by parametric fluorescence. , 2010, , .		0
47	Photon-number resolving detectors. Proceedings of SPIE, 2010, , .	0.8	2
48	Transverse coherence of photon pairs generated in spontaneous parametric down-conversion. Physical Review A, 2010, 81, .	1.0	40
49	Emission of photon pairs at discontinuities of nonlinearity in spontaneous parametric down-conversion. Physical Review A, 2009, 80, .	1.0	10
50	Surface Spontaneous Parametric Down-Conversion. Physical Review Letters, 2009, 103, 063902.	2.9	13
51	Angular uncertainty of momentum correlations in parametric fluorescence. Journal of Russian Laser Research, 2009, 30, 540.	0.3	0
52	Fast time-domain balanced homodyne detection of light. Applied Optics, 2009, 48, 2884.	2.1	20
53	High-efficiency photon-number-resolving multichannel detector. Physical Review A, 2008, 78, .	1.0	26
54	Photocount measurements as a tool for investigation of non-classical properties of twin beams. , 2008, , .		0

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55	Periodically corrugated nonlinear planar waveguide as a source of squeezed light. , 2007, , .		0
56	Squeezed-light generation in a nonlinear planar waveguide with a periodic corrugation. Physical Review A, 2007, 76, .	1.0	6
57	<title>Photon statistics and spatial properties of photon pairs generated by spontaneous parametric down-conversion</title>. , 2005, 5945, 594501.		0
58	Selective excitation of vortex fibre modes using a spatial light modulator. New Journal of Physics, 2005, 7, 125-125.	1.2	35
59	Simple direct measurement of nonclassical joint signal&ldquo;idler photon-number statistics and the correlation area of twin photon beams. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S572-S576.	1.4	19
60	Direct measurement and reconstruction of nonclassical features of twin beams generated in spontaneous parametric down-conversion. Physical Review A, 2005, 71, .	1.0	81
61	Experimental Tests of Energy and Time Entanglement. European Physical Journal A, 2005, 23, 143-150.	0.2	2
62	Experimental multi-photon-resolving detector using a single avalanche photodiode. European Physical Journal D, 2004, 28, 149-154.	0.6	47
63	Experimental verification of energy correlations in entangled photon pairs. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 251-262.	0.9	5
64	Multiple-photon resolving fiber-loop detector. Physical Review A, 2003, 67, .	1.0	121
65	Experimental realization of quantum random number generator. , 2003, 5259, 7.		1
66	Practical Aspects of Quantum Cryptography. , 2002, , 393-398.		2
67	<title>Photon source for quantum cryptography using postselection from entangled quantum states</title>. , 2001, 4356, 61.		0
68	<title>Phase estimation in quantum optics</title>. , 2001, 4356, 96.		0
69	<title>Quantum random number generator</title>. , 2001, , .		0
70	Quantum cryptography using a photon source based on postselection from entangled two-photon states. Physical Review A, 2001, 64, .	1.0	24
71	Sub-poissonian light in third-harmonic generation: Quantum predictions via classical trajectories. European Physical Journal D, 2000, 50, 717-726.	0.4	1
72	Testing operational phase concepts in quantum optics. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 237-244.	1.4	8

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73	Sub-Poissonian behaviour in the second harmonic generation. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 529-533.	1.4	11
74	Quantum identification system. Physical Review A, 1999, 60, 149-156.	1.0	137
75	Generalized beam-splitting attack in quantum cryptography with dim coherent states. Optics Communications, 1999, 169, 103-108.	1.0	32
76	<title>Experimental implementation of quantum cryptography</title>. , 1999, 3820, 88.		0
77	Properties of the transverse eigenmode set in optical resonators with apertures: reply to comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1289.	0.8	1
78	Influence of diffraction on hard-aperture Kerr-lens mode locking. Optics Letters, 1995, 20, 240.	1.7	8
79	Properties of the transverse eigenmode set in optical resonators with apertures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 340.	0.8	7
80	Experimental investigation of eigenmodes of empty optical resonators with apertures. Applied Optics, 1995, 34, 7656.	2.1	2
81	Dynamics of an Actively Mode-locked Tunable Solid-state Laser in the Case of Detuning. Journal of Modern Optics, 1994, 41, 927-939.	0.6	3
82	Nonlinear Phenomena in Quantum Optics. , 0, , 491-601.		1