

# Jan Sperling

## List of Publications by Year in descending order

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Version: 2024-02-01

105  
papers

2,074  
citations

236925

25  
h-index

276875

41  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified quantification of nonclassicality and entanglement. <i>Physical Review A</i> , 2014, 89, .	2.5	139
2	Multipartite Entanglement Witnesses. <i>Physical Review Letters</i> , 2013, 111, 110503.	7.8	114
3	True photocounting statistics of multiple on-off detectors. <i>Physical Review A</i> , 2012, 85, .	2.5	104
4	Full Multipartite Entanglement of Frequency-Comb Gaussian States. <i>Physical Review Letters</i> , 2015, 114, 050501.	7.8	102
5	Necessary and sufficient conditions for bipartite entanglement. <i>Physical Review A</i> , 2009, 79, .	2.5	76
6	The Schmidt number as a universal entanglement measure. <i>Physica Scripta</i> , 2011, 83, 045002.	2.5	71
7	Quantification of nonclassicality. <i>Physical Review A</i> , 2012, 86, .	2.5	64
8	Sub-Binomial Light. <i>Physical Review Letters</i> , 2012, 109, 093601.	7.8	62
9	Convex ordering and quantification of quantumness. <i>Physica Scripta</i> , 2015, 90, 074024.	2.5	59
10	Quantum state engineering by click counting. <i>Physical Review A</i> , 2014, 89, .	2.5	50
11	Uncovering Quantum Correlations with Time-Multiplexed Click Detection. <i>Physical Review Letters</i> , 2015, 115, 023601.	7.8	47
12	Unified nonclassicality criteria. <i>Physical Review A</i> , 2015, 92, .	2.5	42
13	Quasiprobabilities for multipartite quantum correlations of light. <i>Physical Review A</i> , 2013, 87, .	2.5	41
14	Representation of entanglement by negative quasiprobabilities. <i>Physical Review A</i> , 2009, 79, .	2.5	40
15	Multipartite Entanglement of a Two-Separable State. <i>Physical Review Letters</i> , 2016, 117, 110502.	7.8	40
16	Determination of the Schmidt number. <i>Physical Review A</i> , 2011, 83, .	2.5	38
17	Correlation measurements with on-off detectors. <i>Physical Review A</i> , 2013, 88, .	2.5	35
18	Quasiprobability representation of quantum coherence. <i>Physical Review A</i> , 2018, 97, .	2.5	33

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19	Gaussian entanglement in the turbulent atmosphere. <i>Physical Review A</i> , 2016, 94, .	2.5	32
20	Harnessing click detectors for the genuine characterization of light states. <i>Scientific Reports</i> , 2016, 6, 19489.	3.3	30
21	Characterizing maximally singular phase-space distributions. <i>Physical Review A</i> , 2016, 94, .	2.5	29
22	Analytical progress on symmetric geometric discord: Measurement-based upper bounds. <i>Physical Review A</i> , 2012, 86, .	2.5	28
23	Continuous sampling of the squeezed-state nonclassicality. <i>Physical Review A</i> , 2015, 92, .	2.5	27
24	Witnessing the degree of nonclassicality of light. <i>Physical Review A</i> , 2014, 90, .	2.5	26
25	Entanglement witnesses for indistinguishable particles. <i>Physical Review A</i> , 2015, 91, .	2.5	26
26	Quasiprobability distributions for quantum-optical coherence and beyond. <i>Physica Scripta</i> , 2020, 95, 034007.	2.5	26
27	Detector-Independent Verification of Quantum Light. <i>Physical Review Letters</i> , 2017, 118, 163602.	7.8	25
28	Quantifying nonclassicality by characteristic functions. <i>Physical Review A</i> , 2017, 95, .	2.5	25
29	Incomplete Detection of Nonclassical Phase-Space Distributions. <i>Physical Review Letters</i> , 2018, 120, 063607.	7.8	25
30	Structural Quantification of Entanglement. <i>Physical Review Letters</i> , 2014, 113, 260502.	7.8	24
31	Verifying continuous-variable entanglement in finite spaces. <i>Physical Review A</i> , 2009, 79, .	2.5	23
32	Probing nonclassicality with matrices of phase-space distributions. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 343.	0.0	23
33	Strongly entangled light from planar microcavities. <i>Physical Review A</i> , 2012, 86, .	2.5	22
34	Conditional Hybrid Nonclassicality. <i>Physical Review Letters</i> , 2017, 119, 120403.	7.8	22
35	Benchmarking of Gaussian boson sampling using two-point correlators. <i>Physical Review A</i> , 2019, 99, .	2.5	22
36	Probing free-space quantum channels with laboratory-based experiments. <i>Physical Review A</i> , 2017, 95, .	2.5	21

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37	Direct calibration of click-counting detectors. <i>Physical Review A</i> , 2017, 95, .	2.5	20
38	Entanglement quasiprobabilities of squeezed light. <i>New Journal of Physics</i> , 2012, 14, 055026.	2.9	19
39	Detection of nonlocal superpositions. <i>Physical Review A</i> , 2014, 90, .	2.5	19
40	Entanglement in macroscopic systems. <i>Physical Review A</i> , 2017, 95, .	2.5	19
41	Entanglement and phase properties of noisy NOON states. <i>Physical Review A</i> , 2015, 91, .	2.5	18
42	Quantum Correlations from the Conditional Statistics of Incomplete Data. <i>Physical Review Letters</i> , 2016, 117, 083601.	7.8	18
43	Nonclassicality Phase-Space Functions: More Insight with Fewer Detectors. <i>Physical Review Letters</i> , 2015, 114, 103602.	7.8	17
44	Measuring coherence of quantum measurements. <i>Physical Review Research</i> , 2019, 1, .	3.6	17
45	Homodyne detection with on-off detector systems. <i>Physical Review A</i> , 2015, 92, .	2.5	15
46	Geometrical picture of photocounting measurements. <i>Physical Review A</i> , 2018, 97, .	2.5	14
47	Quantum correlations in composite systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 134003.	1.5	13
48	Numerical Construction of Multipartite Entanglement Witnesses. <i>Physical Review X</i> , 2018, 8, .	8.9	13
49	Mode-independent quantum entanglement for light. <i>Physical Review A</i> , 2019, 100, .	2.5	13
50	Quantum Correlations beyond Entanglement and Discord. <i>Physical Review Letters</i> , 2021, 126, 170404.	7.8	13
51	Multipartite entangled light from driven microcavities. <i>Physical Review A</i> , 2013, 88, .	2.5	12
52	Operational Gaussian Schmidt-number witnesses. <i>Physical Review A</i> , 2013, 88, .	2.5	12
53	Balanced homodyne detection with on-off detector systems: Observable nonclassicality criteria. <i>Europhysics Letters</i> , 2015, 109, 34001.	2.0	12
54	Multitime correlation functions in nonclassical stochastic processes. <i>Physical Review A</i> , 2016, 93, .	2.5	12

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55	Quantum coherences of indistinguishable particles. <i>Physical Review A</i> , 2017, 96, .	2.5	12
56	Quantum optical coherence: From linear to nonlinear interferometers. <i>Physical Review A</i> , 2021, 104, .	2.5	12
57	Experimental Reconstruction of Entanglement Quasiprobabilities. <i>Physical Review Letters</i> , 2019, 122, 053602.	7.8	11
58	Transient subdiffusion via disordered quantum walks. <i>Physical Review Research</i> , 2021, 3, .	3.6	11
59	Higher-order nonclassical effects in fluctuating-loss channels. <i>Physical Review A</i> , 2017, 95, .	2.5	10
60	Entanglement verification of noisy NOON states. <i>Physical Review A</i> , 2017, 96, .	2.5	10
61	Identification of nonclassical properties of light with multiplexing layouts. <i>Physical Review A</i> , 2017, 96, .	2.5	10
62	Quasistates and quasiprobabilities. <i>Physical Review A</i> , 2018, 98, .	2.5	9
63	Local Versus Global Two-Photon Interference in Quantum Networks. <i>Physical Review Letters</i> , 2020, 125, 213604.	7.8	9
64	Quantifying Quantum Coherence in Polariton Condensates. <i>PRX Quantum</i> , 2021, 2, .	9.2	9
65	High intensity click statistics from a $10 \text{ \AA} - 10$ avalanche photodiode array. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 214003.	1.5	8
66	Time-dependent quantum correlations in phase space. <i>Physical Review A</i> , 2017, 95, .	2.5	8
67	Detector-Agnostic Phase-Space Distributions. <i>Physical Review Letters</i> , 2020, 124, 013605.	7.8	8
68	Operational definition of quantum correlations of light. <i>Physical Review A</i> , 2016, 94, .	2.5	7
69	Bipartite bound entanglement in continuous variables through degaussification. <i>Physical Review A</i> , 2014, 89, .	2.5	6
70	Quantum photonics with active feedback loops. <i>Physical Review A</i> , 2020, 102, .	2.5	6
71	Displaced photon-number entanglement tests. <i>Physical Review A</i> , 2017, 96, .	2.5	5
72	Two-particle four-point correlations in dynamically disordered tight-binding networks. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 024002.	1.5	5

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73	What can single photons do what lasers cannot do?. Quantum Science and Technology, 2019, 4, 045008.	5.8	5
74	Statistical Benchmarking of Scalable Photonic Quantum Systems. Physical Review Letters, 2021, 126, 023601.	7.8	5
75	Separable and Inseparable Quantum Trajectories. Physical Review Letters, 2017, 119, 170401.	7.8	4
76	Probing the topological Anderson transition with quantum walks. Physical Review Research, 2021, 3, .	3.6	4
77	Witnessing random unitary and projective quantum channels: Complementarity between separable and maximally entangled states. Physical Review A, 2016, 93, .	2.5	3
78	Experimental entanglement characterization of two-rebit states. Physical Review A, 2021, 103, .	2.5	3
79	Driven Gaussian quantum walks. Physical Review A, 2022, 105, .	2.5	2
80	Classical evolution in quantum systems. Physica Scripta, 2020, 95, 065101.	2.5	1
81	Quantum optical coherence: From linear to nonlinear interferometers. , 2021, , .		1
82	Characterizing nonclassicality and entanglement. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 0.6		0
83	Quasiprobability representations of quantumness. , 2011, , .		0
84	Correlation measurements with systems of on-off detectors. , 2014, , .		0
85	Atmospheric Quantum Channels for Nonclassical and Entangled Light. , 2017, , .		0
86	Nonclassicality Phase-Space Inequalities: Theory and Experiment. , 2021, , .		0
87	Multi-photon Fock-state generation via climbing the Fock ladder. , 2021, , .		0
88	Topological Anderson Localization Transition in Time-Multiplexed Quantum Walks. , 2021, , .		0
89	Benchmarking Quantum Correlations in Scalable Photonic Systems. , 2021, , .		0
90	Driving two-photon interference via classical control in quantum networks. , 2021, , .		0

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91	Measurements with on-off detector systems. , 2013, , .		0
92	Nonclassicality, entanglement, and nonclassical correlations. , 2013, , .		0
93	Witnessing of Multipartite Entanglement. , 2013, , .		0
94	Nonclassicality, entanglement, and nonclassical correlations. , 2013, , .		0
95	Entanglement witnesses and detection of nonlocal superpositions. , 2014, , .		0
96	Divide-and-Conquer Integrated Photon-Counting Device. , 2015, , .		0
97	Divide & Conquer: Counting photons on an integrated platform. , 2015, , .		0
98	Divide & Conquer: genuine characterization of light states by click detectors. , 2017, , .		0
99	Click-Counting Detection of Quantum Correlated Light. , 2017, , .		0
100	Versatile Forms of Multimode Entanglement. , 2017, , .		0
101	Quasiprobability Representation for Quantum Correlations and Measurements. , 2019, , .		0
102	Quasiprobability Representation for Quantum Correlations and Measurements. , 2019, , .		0
103	Identifying ultrafast fs-squeezing with a genuinely local oscillator and photon counting. , 2020, , .		0
104	Nonclassical Phase-Space Correlations in Theory and Experiment. , 2021, , .		0
105	Two-Rebit Entanglement: Theory and Experiment. , 2021, , .		0