

# Nicolas J Cerf

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

10,489  
citations

147726

31  
h-index

133188

59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial order on passive states and Hoffman majorization in quantum thermodynamics. Physical Review Research, 2021, 3, .	1.3	4
2	Realignment separability criterion assisted with filtration for detecting continuous-variable entanglement. Physical Review A, 2021, 104, .	1.0	1
3	Quantum Wigner entropy. Physical Review A, 2021, 104, .	1.0	9
4	Multiparticle quantum interference in Bogoliubov bosonic transformations. Physical Review Research, 2021, 3, .	1.3	2
5	Two-boson quantum interference in time. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33107-33116.	3.3	5
6	Quantum thermodynamics in a multipartite setting: A resource theory of local Gaussian work extraction for multimode bosonic systems. Physical Review A, 2019, 100, .	1.0	12
7	Continuous-variable entropic uncertainty relations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 173001.	0.7	48
8	Fock majorization in bosonic quantum channels with a passive environment. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 105302.	0.7	3
9	Multicopy uncertainty observable inducing a symplectic-invariant uncertainty relation in position and momentum phase space. Physical Review A, 2019, 100, .	1.0	4
10	Multidimensional entropic uncertainty relation based on a commutator matrix in position and momentum spaces. Physical Review A, 2018, 97, .	1.0	3
11	Entropy-power uncertainty relations: towards a tight inequality for all Gaussian pure states. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 385301.	0.7	12
12	Majorization preservation of Gaussian bosonic channels. New Journal of Physics, 2016, 18, 073047.	1.2	6
13	Operational quantum theory without predefined time. New Journal of Physics, 2016, 18, 073037.	1.2	34
14	Entropy generation in Gaussian quantum transformations: applying the replica method to continuous-variable quantum information theory. Npj Quantum Information, 2016, 2, .	2.8	7
15	Detection of non-Gaussian entangled states with an improved continuous-variable separability criterion. Physical Review A, 2016, 93, .	1.0	14
16	Efficient entanglement distillation without quantum memory. Nature Communications, 2016, 7, 11720.	5.8	9
17	Operational formulation of time reversal in quantum theory. Nature Physics, 2015, 11, 853-858.	6.5	39
18	Interconversion of pure Gaussian states requiring non-Gaussian operations. Physical Review A, 2015, 91, .	1.0	6

#	ARTICLE	IF	CITATIONS
19	Optimality of Gaussian Discord. Physical Review Letters, 2014, 113, 140405.	2.9	67
20	Security of Continuous-Variable Quantum Key Distribution Against General Attacks. Physical Review Letters, 2013, 110, 030502.	2.9	183
21	Equivalence Relations for the Classical Capacity of Single-Mode Gaussian Quantum Channels. Physical Review Letters, 2013, 111, 030503.	2.9	22
22	Majorization Theory Approach to the Gaussian Channel Minimum Entropy Conjecture. Physical Review Letters, 2012, 108, 110505.	2.9	57
23	Gaussian postselection and virtual noiseless amplification in continuous-variable quantum key distribution. Physical Review A, 2012, 86, .	1.0	90
24	Enhancing quantum entanglement by photon addition and subtraction. Physical Review A, 2012, 86, .	1.0	139
25	Gaussian quantum information. Reviews of Modern Physics, 2012, 84, 621-669.	16.4	2,430
26	Gaussian capacity of the quantum bosonic memory channel with additive correlated Gaussian noise. Physical Review A, 2011, 84, .	1.0	7
27	Quantum optical coherence can survive photon losses using a continuous-variable quantum erasure-correcting code. Nature Photonics, 2010, 4, 700-705.	15.6	50
28	Strong no-go theorem for Gaussian quantum bit commitment. Physical Review A, 2010, 81, .	1.0	30
29	Quantum de Finetti theorem in phase-space representation. Physical Review A, 2009, 80, .	1.0	7
30	No-Go Theorem for Gaussian Quantum Error Correction. Physical Review Letters, 2009, 102, 120501.	2.9	231
31	Capacity of a bosonic memory channel with Gauss-Markov noise. Physical Review A, 2009, 80, .	1.0	14
32	The security of practical quantum key distribution. Reviews of Modern Physics, 2009, 81, 1301-1350.	16.4	2,489
33	Continuous-Variable Quantum Key Distribution Protocols Over Noisy Channels. Physical Review Letters, 2009, 102, 130501.	2.9	128
34	Optimal multicopy asymmetric Gaussian cloning of coherent states. Physical Review A, 2007, 75, .	1.0	10
35	Experimental Implementation of Non-Gaussian Attacks on a Continuous-Variable Quantum-Key-Distribution System. Physical Review Letters, 2007, 98, 030503.	2.9	40
36	Experimental implementation of non-gaussian attacks on a continuous-variable quantum key distribution system. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
37	From quantum cloning to quantum key distribution with continuous variables: a review (Invited). Journal of the Optical Society of America B: Optical Physics, 2007, 24, 324.	0.9	32
38	Quantum key distribution over $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 25 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{with an all-fiber continuous-variable system. Physical Review A, 2007, 76, .$	1.0	403
39	Optical quantum cloning. Progress in Optics, 2006, , 455-545.	0.4	35
40	Universal Optical Amplification without Nonlinearity. Physical Review Letters, 2006, 96, 163602.	2.9	67
41	Unconditional Optimality of Gaussian Attacks against Continuous-Variable Quantum Key Distribution. Physical Review Letters, 2006, 97, 190503.	2.9	426
42	Economical quantum cloning in any dimension. Physical Review A, 2005, 72, .	1.0	47
43	Quantum entanglement enhances the capacity of bosonic channels with memory. Physical Review A, 2005, 72, .	1.0	59
44	Loophole-free test of quantum nonlocality using high-efficiency homodyne detectors. Physical Review A, 2005, 71, .	1.0	44
45	Quantum Cloning of a Coherent Light State into an Atomic Quantum Memory. Physical Review Letters, 2004, 93, 180501.	2.9	24
46	Continuous-Variable Quantum Cryptography is Secure against Non-Gaussian Attacks. Physical Review Letters, 2004, 92, 047905.	2.9	153
47	Pulsed squeezed vacuum measurements without homodyning. Physical Review A, 2004, 70, .	1.0	32
48	Quantum key distribution using gaussian-modulated coherent states. Nature, 2003, 421, 238-241.	13.7	1,120
49	Security of quantum key distribution with entangled qutrits. Physical Review A, 2003, 67, .	1.0	138
50	Cloning a reald-dimensional quantum state on the edge of the no-signaling condition. Physical Review A, 2003, 68, .	1.0	60
51	Quantum Cloning with Continuous Variables. , 2003, , 277-293.		0
52	Security of Quantum Key Distribution Usingd-Level Systems. Physical Review Letters, 2002, 88, 127902.	2.9	1,008
53	Optimal Cloning of Coherent States with a Linear Amplifier and Beam Splitters. Physical Review Letters, 2001, 86, 4938-4941.	2.9	131
54	Pauli Cloning of a Quantum Bit. Physical Review Letters, 2000, 84, 4497-4500.	2.9	200

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55	Asymmetric quantum cloning in any dimension. Journal of Modern Optics, 2000, 47, 187-209.	0.6	152
56	Information-Theoretic Aspects of Quantum Copying. Lecture Notes in Computer Science, 1999, , 218-234.	1.0	3
57	Information theory of quantum entanglement and measurement. Physica D: Nonlinear Phenomena, 1998, 120, 62-81.	1.3	99
58	Cerf Replies:. Physical Review Letters, 1998, 80, 886-886.	2.9	1
59	Entropic bounds on coding for noisy quantum channels. Physical Review A, 1998, 57, 3330-3347.	1.0	15
60	Information-theoretic interpretation of quantum error-correcting codes. Physical Review A, 1997, 56, 1721-1732.	1.0	21
61	Monte Carlo Computation of Pair Correlations in Excited Nuclei. Physical Review Letters, 1996, 76, 2420-2423.	2.9	6