

List of Publications by Year in descending order

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76
papers

3,967
citations

270111

25
h-index

156644

58
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80
all docs

80
docs citations

80
times ranked

1462
citing authors

#	ARTICLE	IF	CITATIONS
1	Examples of conditional SIC-POVMs. <i>Quantum Information Processing</i> , 2015, 14, 3983-3999.	1.0	1
2	Introduction to Matrix Analysis and Applications. Universitext, 2014, , .	0.2	105
3	Conditional SIC-POVMs. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 351-356.	1.5	4
4	Weighted multivariable operator means of positive definite operators. <i>Linear Algebra and Its Applications</i> , 2014, 463, 134-153.	0.4	4
5	Convexity of quasi-entropy type functions: Lieb's and Ando's convexity theorems revisited. <i>Journal of Mathematical Physics</i> , 2013, 54, 062201.	0.5	6
6	Partial subadditivity of entropies. <i>Linear Algebra and Its Applications</i> , 2013, 439, 3297-3305.	0.4	4
7	Families of completely positive maps associated with monotone metrics. <i>Linear Algebra and Its Applications</i> , 2013, 439, 1749-1791.	0.4	17
8	Extremal properties of the variance and the quantum Fisher information. <i>Physical Review A</i> , 2013, 87, .	1.0	84
9	Convex Optimization-Based Parameter Estimation and Experiment Design for Pauli Channels. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2056-2061.	3.6	8
10	Characterization of mean transformations. <i>Linear and Multilinear Algebra</i> , 2012, 60, 255-265.	0.5	2
11	Efficient Quantum Tomography Needs Complementary and Symmetric Measurements. <i>Reports on Mathematical Physics</i> , 2012, 69, 161-177.	0.4	16
12	Riemannian metrics on positive definite matrices related to means. II. <i>Linear Algebra and Its Applications</i> , 2012, 436, 2117-2136.	0.4	25
13	From Quasi-Entropy to Various Quantum Information Quantities. <i>Publications of the Research Institute for Mathematical Sciences</i> , 2012, 48, 525-542.	0.4	20
14	Matrix variances with projections. <i>Acta Scientiarum Mathematicarum</i> , 2012, 78, 683-688.	0.2	3
15	Completely positive mappings and mean matrices. <i>Linear Algebra and Its Applications</i> , 2011, 435, 984-997.	0.4	11
16	QUANTUM f-DIVERGENCES AND ERROR CORRECTION. <i>Reviews in Mathematical Physics</i> , 2011, 23, 691-747.	0.7	117
17	From \mathcal{A} -Divergence to Quantum Quasi-Entropies and Their Use. <i>Entropy</i> , 2010, 12, 304-325.	1.1	26
18	Algebraic complementarity in quantum theory. <i>Journal of Mathematical Physics</i> , 2010, 51, .	0.5	8

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19	Complementarity and state estimation. Reports on Mathematical Physics, 2010, 65, 203-214.	0.4	4
20	GAUSSIAN MARKOV TRIPLETS. , 2010, , .		0
21	Markov triplets on CCR-algebras. Acta Scientiarum Mathematicarum, 2010, 76, 111-134.	0.2	3
22	COMPLEMENTARITY AND THE ALGEBRAIC STRUCTURE OF FOUR-LEVEL QUANTUM SYSTEMS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2009, 12, 99-116.	0.3	14
23	Quantum Covariance, Quantum Fisher Information, and the Uncertainty Relations. IEEE Transactions on Information Theory, 2009, 55, 439-443.	1.5	48
24	Riemannian metrics on positive definite matrices related to means. Linear Algebra and Its Applications, 2009, 430, 3105-3130.	0.4	56
25	Markov property of Gaussian states of canonical commutation relation algebras. Journal of Mathematical Physics, 2009, 50, .	0.5	6
26	Complementarity and the algebraic structure of finite quantum systems. Journal of Physics: Conference Series, 2009, 143, 012011.	0.3	1
27	FREE ENERGY DENSITY FOR MEAN FIELD PERTURBATION OF STATES OF A ONE-DIMENSIONAL SPIN CHAIN. Reviews in Mathematical Physics, 2008, 20, 335-365.	0.7	10
28	Complementary reductions for two qubits. Journal of Mathematical Physics, 2007, 48, 012107.	0.5	11
29	Complementarity in quantum systems. Reports on Mathematical Physics, 2007, 59, 209-224.	0.4	30
30	Quasi-orthogonal subalgebras of 4×4 matrices. Linear Algebra and Its Applications, 2007, 425, 109-118.	0.4	11
31	Sufficiency in Quantum Statistical Inference. Communications in Mathematical Physics, 2006, 263, 259-276.	1.0	71
32	SUFFICIENCY IN QUANTUM STATISTICAL INFERENCE: A SURVEY WITH EXAMPLES. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2006, 09, 331-351.	0.3	25
33	A Free Logarithmic Sobolev Inequality on the Circle. Canadian Mathematical Bulletin, 2006, 49, 389-406.	0.3	4
34	SATURATION OF AN ENTROPY BOUND AND QUANTUM MARKOV STATES. , 2006, , .		0
35	Large deviation for the empirical eigenvalue density of truncated Haar unitary matrices. Probability Theory and Related Fields, 2005, 133, 175-189.	0.9	13
36	EQUILIBRIUM STATES AND THEIR ENTROPY DENSITIES IN GAUGE-INVARIANT C*-SYSTEMS. Reviews in Mathematical Physics, 2005, 17, 365-389.	0.7	1

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37	Means of Positive Numbers and Matrices. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 712-720.	0.7	35
38	The Proper Formula for Relative Entropy and its Asymptotics in Quantum Probability. , 2005, , 43-63.		2
39	On asymptotics of large Haar distributed unitary matrices. Periodica Mathematica Hungarica, 2004, 49, 103-117.	0.5	23
40	Free transportation cost inequalities via random matrix approximation. Probability Theory and Related Fields, 2004, 130, 199.	0.9	23
41	Structure of Sufficient Quantum Coarse-Grainings. Letters in Mathematical Physics, 2004, 68, 19-30.	0.5	23
42	Structure of States Which Satisfy Strong Subadditivity of Quantum Entropy with Equality. Communications in Mathematical Physics, 2004, 246, 359-374.	1.0	293
43	MONOTONICITY OF QUANTUM RELATIVE ENTROPY REVISITED. Reviews in Mathematical Physics, 2003, 15, 79-91.	0.7	131
44	Covariance and Fisher information in quantum mechanics. Journal of Physics A, 2002, 35, 929-939.	1.6	88
45	Free relative entropy for measures and a corresponding perturbation theory. Journal of the Mathematical Society of Japan, 2002, 54, .	0.3	6
46	Stationary quantum source coding. Journal of Mathematical Physics, 2001, 42, 4857-4864.	0.5	20
47	ON THE CURVATURE OF A CERTAIN RIEMANNIAN SPACE OF MATRICES. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2000, 03, 199-212.	0.3	18
48	Properties of Free Entropy Related to Polar Decomposition. Communications in Mathematical Physics, 1999, 202, 421-444.	1.0	7
49	Eigenvalue Density of the Wishart Matrix and Large Deviations. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1998, 01, 633-646.	0.3	24
50	Contraction of Generalized Relative Entropy Under Stochastic Mappings on Matrices. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1998, 01, 83-89.	0.3	28
51	INFORMATION-GEOMETRY OF QUANTUM STATES. QP-PQ, Quantum Probability and White Noise Analysis, 1998, , 135-157.	0.1	6
52	Non-Commutative Extension of Information Geometry II. , 1997, , 109-118.		20
53	Geometries of quantum states. Journal of Mathematical Physics, 1996, 37, 2662-2673.	0.5	167
54	Monotone metrics on matrix spaces. Linear Algebra and Its Applications, 1996, 244, 81-96.	0.4	379

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55	On the Riemannian metric of χ -entropies of density matrices. Letters in Mathematical Physics, 1996, 38, 221-225.	0.5	55
56	QUANTUM MECHANICS IN AFC*-SYSTEMS. Reviews in Mathematical Physics, 1996, 08, 819-859.	0.7	7
57	Geometry of canonical correlation on the state space of a quantum system. Journal of Mathematical Physics, 1994, 35, 780-795.	0.5	89
58	A survey of certain trace inequalities. Banach Center Publications, 1994, 30, 287-298.	0.1	24
59	The Golden-Thompson trace inequality is complemented. Linear Algebra and Its Applications, 1993, 181, 153-185.	0.4	86
60	ENTROPY DENSITIES FOR GIBBS STATES OF QUANTUM SPIN SYSTEMS. Reviews in Mathematical Physics, 1993, 05, 693-712.	0.7	11
61	Quantum Entropy and Its Use. , 1993, , .		506
62	Entropies of general quantum states. Open Systems and Information Dynamics, 1992, 1, 43-56.	0.5	26
63	The proper formula for relative entropy and its asymptotics in quantum probability. Communications in Mathematical Physics, 1991, 143, 99-114.	1.0	341
64	On certain properties of the relative entropy of states of operator algebras. Mathematische Zeitschrift, 1991, 206, 351-361.	0.4	11
65	First steps towards a Donsker and Varadhan theory in operator algebras. Lecture Notes in Mathematics, 1990, , 311-319.	0.1	5
66	Classes of conditional expectations over von Neumann algebras. Journal of Functional Analysis, 1990, 92, 8-29.	0.7	9
67	Positive mappings on matrix algebras. Lecture Notes in Mathematics, 1989, , 295-303.	0.1	0
68	State extensions and a Radon-NikodÄ½m theorem for conditional expectations on von Neumann algebras. Pacific Journal of Mathematics, 1989, 138, 9-24.	0.2	14
69	Characterizations of the trace. Linear Algebra and Its Applications, 1988, 111, 43-52.	0.4	44
70	A variational expression for the relative entropy. Communications in Mathematical Physics, 1988, 114, 345-349.	1.0	46
71	SUFFICIENCY OF CHANNELS OVER VON NEUMANN ALGEBRAS. Quarterly Journal of Mathematics, 1988, 39, 97-108.	0.3	154
72	Jensen's Inequality for Positive Contractions on Operator Algebras. Proceedings of the American Mathematical Society, 1987, 99, 273.	0.4	0

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73	Quasi-entropies for finite quantum systems. Reports on Mathematical Physics, 1986, 23, 57-65.	0.4	306
74	Spectral scale of self-adjoint operators and trace inequalities. Journal of Mathematical Analysis and Applications, 1985, 109, 74-82.	0.5	40
75	Properties of quantum entropy. Lecture Notes in Mathematics, 1985, , 428-441.	0.1	8
76	Quasi-entropies for States of a von Neumann Algebra. Publications of the Research Institute for Mathematical Sciences, 1985, 21, 787-800.	0.4	83