Alexey E Rastegin

List of Publications by Year
in descending order

69 papers	**1,099** citations	471509 **17** h-index	454955 **30** g-index
69 all docs	**69** docs citations	**69** times ranked	**644** citing authors

#	Article	IF	Citations
1	Quantum-coherence quantifiers based on the Tsallis relative <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>α</mml:mi></mml:math> entropies. Physical Review A, 2016, 93, .	2.5	139
2	Uncertainty relations for MUBs and SIC-POVMs in terms of generalized entropies. European Physical Journal D, 2013, 67, 1.	1.3	74
3	Jarzynski equality for quantum stochastic maps. Physical Review E, 2014, 89, 012127.	2.1	62
4	Non-equilibrium equalities with unital quantum channels. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P06016.	2.3	60
5	Some General Properties of Unified Entropies. Journal of Statistical Physics, 2011, 143, 1120-1135.	1.2	45
6	Relative error of state-dependent cloning. Physical Review A, 2002, 66, .	2.5	44
7	Entropic uncertainty relations for extremal unravelings of super-operators. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 095303.	2.1	36
8	Notes on general SIC-POVMs. Physica Scripta, 2014, 89, 085101.	2.5	35
9	Rényi formulation of the entropic uncertainty principle for POVMs. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 155302.	2.1	28
10	On Uncertainty Relations and Entanglement Detection with Mutually Unbiased Measurements. Open Systems and Information Dynamics, 2015, 22, 1550005.	1.2	28
11	A lower bound on the relative error of mixed-state cloning and related operations. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S647-S650.	1.4	27
12	The BAIKAL neutrino experiment—Physics results and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 602, 14-20.	1.6	27
13	Majorization entropic uncertainty relations for quantum operations. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 355301.	2.1	25
14	Relations for Certain Symmetric Norms and Anti-norms Before and After Partial Trace. Journal of Statistical Physics, 2012, 148, 1040-1053.	1.2	21
15	Entropic uncertainty relations for successive measurements of canonically conjugate observables. Annalen Der Physik, 2016, 528, 835-844.	2.4	21
16	Uncertainty relations for quantum coherence with respect to mutually unbiased bases. Frontiers of Physics, 2018, 13, 1.	5.0	21
17	Notes on Entropic Uncertainty Relations Beyond the Scope of Riesz's Theorem. International Journal of Theoretical Physics, 2012, 51, 1300-1315.	1.2	20
18	Entropic formulation of the uncertainty principle for the number and annihilation operators. Physica Scripta, 2011, 84, 057001.	2.5	18

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19	Uncertainty and certainty relations for complementary qubit observables in terms of Tsallis' entropies. Quantum Information Processing, 2013, 12, 2947-2963.	2.2	16
20	Fine-grained uncertainty relations for several quantum measurements. Quantum Information Processing, 2015, 14, 783-800.	2.2	16
21	On generalized entropies and information-theoretic Bell inequalities under decoherence. Annals of Physics, 2015, 355, 241-257.	2.8	16
22	On the Brukner–Zeilinger approach to information in quantum measurements. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150435.	2.1	15
23	Partitioned trace distances. Quantum Information Processing, 2010, 9, 61-73.	2.2	14
24	Asp-15—A stationary device for the measurement of the optical water properties at the NT200 neutrino telescope site. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 693, 186-194.	1.6	14
25	Upper continuity bounds on the relative q-entropy for $q > 1$. Journal of Mathematical Physics, 2011, 52, .	1.1	13
26	On the role of dealing with quantum coherence in amplitude amplification. Quantum Information Processing, 2018, 17, 1.	2.2	13
27	Continuity and Stability of Partial Entropic Sums. Letters in Mathematical Physics, 2010, 94, 229-242.	1.1	12
28	Upper bound on the global fidelity for mixed-state cloning. Physical Review A, 2003, 67, .	2.5	11
29	On unified-entropy characterization of quantum channels. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 045302.	2.1	10
30	Bounds of the Pinsker and Fannes Types on the Tsallis Relative Entropy. Mathematical Physics Analysis and Geometry, 2013, 16, 213-228.	1.0	10
31	Separability conditions based on local fine-grained uncertainty relations. Quantum Information Processing, 2016, 15, 2621-2638.	2.2	10
32	On entropic uncertainty relations in the presence of a minimal length. Annals of Physics, 2017, 382, 170-180.	2.8	10
33	Trace distance from the viewpoint of quantum operation techniques. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9533-9549.	2.1	9
34	Bounds on Shannon distinguishability in terms of partitioned measures. Quantum Information Processing, 2011, 10, 123-138.	2.2	9
35	Fano type quantum inequalities in terms of q-entropies. Quantum Information Processing, 2012, 11, 1895-1910.	2.2	9
36	Coherence quantifiers from the viewpoint of their decreases in the measurement process. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 414011.	2.1	9

#	Article	IF	Citations
37	Number-phase uncertainty relations in terms of generalized entropies. Quantum Information and Computation, 2012, 12, 743-762.	0.3	9

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#	Article	IF	Citations
55	Entropic Uncertainty Relations for Successive Measurements in the Presence of a Minimal Length. Entropy, 2018, 20, 354.	2.2	5
56	Notes on entropic characteristics of quantum channels. Open Physics, 2013, 11, .	1.7	4
57	On Quantum Conditional Entropies Defined in Terms of the F-Divergences. Reports on Mathematical Physics, 2014, 73, 393-411.	0.8	4
58	Notes on use of Generalized Entropies in Counting. Graphs and Combinatorics, 2016, 32, 2625-2641.	0.4	4
59	On Quantum Fluctuations Relations with Generalized Energy Measurements. International Journal of Theoretical Physics, 2018, 57, 1425-1439.	1.2	4
60	Quantum search degeneration under amplitude noise in queries to the oracle. Quantum Information Processing, 2022, 21, 1.	2.2	4
61	RÃ©nyi and Tsallis entropies related to eigenfunctions of quantum graphs. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 215204.	2.1	3
62	Quantum work fluctuations versus macrorealism in terms of non-extensive entropies. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 233-242.	2.6	2
63	Formulation of the Hellmannâ€"Feynman theorem for the â€œsecond choiceâ€•version of Tsallisâ€™ thermostatistics. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 103-110.	2.6	1
64	RÃ©nyi and Tsallis formulations of separability conditions in finite dimensions. Quantum Information Processing, 2017, 16, 1.	2.2	1
65	Individual attacks with generalized discrimination and inadequacy of some information measures. Quantum Information Processing, 2019, 18, 1.	2.2	1
66	Flavor-mass majorization uncertainty relations and their links to the mixing matrix. Modern Physics Letters A, 2021, 36, .	1.2	1
67	Estimating the Shannon Entropy and (Un)certainty Relations for Design-Structured POVMs. SIAM Journal on Applied Mathematics, 2022, 82, 1001-1019.	1.8	1
68	Analysis of hydrostatic instability based on mechanical analogy. Russian Physics Journal, 2010, 53, 648-652.	0.4	0
69	OPTIMAL CLONING WITH RESPECT TO THE RELATIVE ERROR. International Journal of Quantum Information, 2011, 09, 1341-1354.	1.1	0