

# Alexey E Rastegin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2696454/publications.pdf>

Version: 2024-02-01

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 search degeneration under amplitude noise in queries to the oracle. Quantum Information Processing, 2022, 21, 1.	2.2	4
2	Estimating the Shannon Entropy and (Un)certainly Relations for Design-Structured POVMs. SIAM Journal on Applied Mathematics, 2022, 82, 1001-1019.	1.8	1
3	Flavor-mass majorization uncertainty relations and their links to the mixing matrix. Modern Physics Letters A, 2021, 36, .	1.2	1
4	Rényi formulation of uncertainty relations for POVMs assigned to a quantum design. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 405301.	2.1	7
5	Individual attacks with generalized discrimination and inadequacy of some information measures. Quantum Information Processing, 2019, 18, 1.	2.2	1
6	On Entropic Uncertainty Relations for Measurements of Energy and Its "Complement". Annalen Der Physik, 2019, 531, 1800466.	2.4	6
7	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
8	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
9	On Quantum Fluctuations Relations with Generalized Energy Measurements. International Journal of Theoretical Physics, 2018, 57, 1425-1439.	1.2	4
10	Uncertainty relations for quantum coherence with respect to mutually unbiased bases. Frontiers of Physics, 2018, 13, 1.	5.0	21
11	Degradation of Grover's search under collective phase flips in queries to the oracle. Frontiers of Physics, 2018, 13, 1.	5.0	5
12	Entropic Uncertainty Relations for Successive Measurements in the Presence of a Minimal Length. Entropy, 2018, 20, 354.	2.2	5
13	On the role of dealing with quantum coherence in amplitude amplification. Quantum Information Processing, 2018, 17, 1.	2.2	13
14	On entropic uncertainty relations in the presence of a minimal length. Annals of Physics, 2017, 382, 170-180.	2.8	10
15	Rényi and Tsallis entropies related to eigenfunctions of quantum graphs. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 215204.	2.1	3
16	Rényi and Tsallis formulations of separability conditions in finite dimensions. Quantum Information Processing, 2017, 16, 1.	2.2	1
17	Rényi formulation of entanglement criteria for continuous variables. Physical Review A, 2017, 95, .	2.5	5
18	Separability conditions based on local fine-grained uncertainty relations. Quantum Information Processing, 2016, 15, 2621-2638.	2.2	10

#	ARTICLE	IF	CITATIONS
19	Majorization entropic uncertainty relations for quantum operations. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 355301.	2.1	25
20	Quantum-coherence quantifiers based on the Tsallis relative $\hat{I}_{\pm}$ entropies. Physical Review A, 2016, 93, .	2.5	139
21	Entropic uncertainty relations for successive measurements of canonically conjugate observables. Annalen Der Physik, 2016, 528, 835-844.	2.4	21
22	Notes on use of Generalized Entropies in Counting. Graphs and Combinatorics, 2016, 32, 2625-2641.	0.4	4
23	On conclusive eavesdropping and measures of mutual information in quantum key distribution. Quantum Information Processing, 2016, 15, 1225-1239.	2.2	5
24	Further results on generalized conditional entropies. RAIRO - Theoretical Informatics and Applications, 2015, 49, 67-92.	0.5	8
25	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
26	Fine-grained uncertainty relations for several quantum measurements. Quantum Information Processing, 2015, 14, 783-800.	2.2	16
27	On generalized entropies and information-theoretic Bell inequalities under decoherence. Annals of Physics, 2015, 355, 241-257.	2.8	16
28	Uncertainty and Certainty Relations for Successive Projective Measurements of a Qubit in Terms of Tsallis' Entropies. Communications in Theoretical Physics, 2015, 63, 687-694.	2.5	6
29	Uncertainty Relations for General Canonically Conjugate Observables in Terms of Unified Entropies. Foundations of Physics, 2015, 45, 923-942.	1.3	6
30	On Uncertainty Relations and Entanglement Detection with Mutually Unbiased Measurements. Open Systems and Information Dynamics, 2015, 22, 1550005.	1.2	28
31	Notes on general SIC-POVMs. Physica Scripta, 2014, 89, 085101.	2.5	35
32	On Quantum Conditional Entropies Defined in Terms of the F-Divergences. Reports on Mathematical Physics, 2014, 73, 393-411.	0.8	4
33			

#	ARTICLE	IF	CITATIONS
37	Bounds of the Pinsker and Fannes Types on the Tsallis Relative Entropy. <i>Mathematical Physics Analysis and Geometry</i> , 2013, 16, 213-228.	1.0	10
38	Uncertainty and certainty relations for complementary qubit observables in terms of Tsallis's entropies. <i>Quantum Information Processing</i> , 2013, 12, 2947-2963.	2.2	16
39	Uncertainty relations for MUBs and SIC-POVMs in terms of generalized entropies. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	74
40	Unified-entropy trade-off relations for a single quantum channel. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 285301.	2.1	7
41	Notes on entropic characteristics of quantum channels. <i>Open Physics</i> , 2013, 11, .	1.7	4
42	Formulation of the Hellmann-Feynman theorem for the second choice version of Tsallis's thermostatics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 103-110.	2.6	1
43	Non-equilibrium equalities with unital quantum channels. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P06016.	2.3	60
44	On unified-entropy characterization of quantum channels. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 045302.	2.1	10
45	Generalized Conditional Entropies of Partitions on Quantum Logic. <i>Communications in Theoretical Physics</i> , 2012, 58, 819-822.	2.5	6
46	Entropic uncertainty relations and quasi-Hermitian operators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 444026.	2.1	5
47	Relations for Certain Symmetric Norms and Anti-norms Before and After Partial Trace. <i>Journal of Statistical Physics</i> , 2012, 148, 1040-1053.	1.2	21
48	Fano type quantum inequalities in terms of q-entropies. <i>Quantum Information Processing</i> , 2012, 11, 1895-1910.	2.2	9
49	Asp-15: A stationary device for the measurement of the optical water properties at the NT200 neutrino telescope site. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 693, 186-194.	1.6	14
50	Notes on Entropic Uncertainty Relations Beyond the Scope of Riesz's Theorem. <i>International Journal of Theoretical Physics</i> , 2012, 51, 1300-1315.	1.2	20
51	Number-phase uncertainty relations in terms of generalized entropies. <i>Quantum Information and Computation</i> , 2012, 12, 743-762.	0.3	9
52	Entropic uncertainty relations for extremal unravelings of super-operators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 095303.	2.1	36
53	Some General Properties of Unified Entropies. <i>Journal of Statistical Physics</i> , 2011, 143, 1120-1135.	1.2	45
54	Bounds on Shannon distinguishability in terms of partitioned measures. <i>Quantum Information Processing</i> , 2011, 10, 123-138.	2.2	9

#	ARTICLE	IF	CITATIONS
55	Entropic formulation of the uncertainty principle for the number and annihilation operators. <i>Physica Scripta</i> , 2011, 84, 057001.	2.5	18
56	Upper continuity bounds on the relative $q$ -entropy for $q > 1$ . <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	13
57	OPTIMAL CLONING WITH RESPECT TO THE RELATIVE ERROR. <i>International Journal of Quantum Information</i> , 2011, 09, 1341-1354.	1.1	0
58	Continuity and Stability of Partial Entropic Sums. <i>Letters in Mathematical Physics</i> , 2010, 94, 229-242.	1.1	12
59	Partitioned trace distances. <i>Quantum Information Processing</i> , 2010, 9, 61-73.	2.2	14
60	Analysis of hydrostatic instability based on mechanical analogy. <i>Russian Physics Journal</i> , 2010, 53, 648-652.	0.4	0
61	Rényi formulation of the entropic uncertainty principle for POVMs. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 155302.	2.1	28
62	No-cloning theorem for a single POVM. <i>Quantum Information and Computation</i> , 2010, 10, 971-980.	0.3	8
63	Baikal neutrino telescope – An underwater laboratory for astroparticle physics and environmental studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 598, 282-288.	1.6	6
64	The BAIKAL neutrino experiment – Physics results and perspectives. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 602, 14-20.	1.6	27
65	Trace distance from the viewpoint of quantum operation techniques. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 9533-9549.	2.1	9
66	Upper bound on the global fidelity for mixed-state cloning. <i>Physical Review A</i> , 2003, 67, .	2.5	11
67	Global-fidelity limits of state-dependent cloning of mixed states. <i>Physical Review A</i> , 2003, 68, .	2.5	6
68	A lower bound on the relative error of mixed-state cloning and related operations. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003, 5, S647-S650.	1.4	27
69	Relative error of state-dependent cloning. <i>Physical Review A</i> , 2002, 66, .	2.5	44