Zbigniew PuchaÅ,a

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4664387/publications.pdf Version: 2024-02-01



ΖΡΙΟΝΙΕΝ ΡΠΟΗΛΔΑ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Algebraic and geometric structures inside the Birkhoff polytope. Journal of Mathematical Physics, 2022, 63, . | 1.1 | 1 |
| 2 | Encoding Classical Information Into Quantum Resources. IEEE Transactions on Information Theory, 2022, 68, 4518-4530. | 2.4 | 8 |
| 3 | On the optimal certification of von Neumann measurements. Scientific Reports, 2021, 11, 3623. | 3.3 | 2 |
| 4 | Generating random quantum channels. Journal of Mathematical Physics, 2021, 62, . | 1.1 | 23 |
| 5 | Log-convex set of Lindblad semigroups acting on N-level system. Journal of Mathematical Physics, 2021, 62, 072105. | 1.1 | 2 |
| 6 | Relating Entropies of Quantum Channels. Entropy, 2021, 23, 1028. | 2.2 | 0 |
| 7 | Excluding false negative error in certification of quantum channels. Scientific Reports, 2021, 11, 21716. | 3.3 | 1 |
| 8 | Discrimination of POVMs with rank-one effects. Quantum Information Processing, 2020, 19, 1. | 2.2 | 8 |
| 9 | Simulating all quantum measurements using only projective measurements and postselection. Physical Review A, 2019, 100, . | 2.5 | 27 |
| 10 | Distinguishing classically indistinguishable states and channels. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 475303. | 2.1 | 5 |
| 11 | Pauli semigroups and unistochastic quantum channels. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2376-2381. | 2.1 | 13 |
| 12 | Vertices cannot be hidden from quantum spatial search for almost all random graphs. Quantum Information Processing, 2018, 17, 1. | 2.2 | 13 |
| 13 | Unified approach to geometric and positive-map-based nonlinear entanglement identifiers. Physical Review A, 2018, 97, . | 2.5 | 1 |
| 14 | Coherifying quantum channels. New Journal of Physics, 2018, 20, 043028. | 2.9 | 39 |
| 15 | Majorization uncertainty relations for mixed quantum states. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 175306. | 2.1 | 14 |
| 16 | Strategies for optimal single-shot discrimination of quantum measurements. Physical Review A, 2018, 98, . | 2.5 | 22 |
| 17 | Almost all quantum channels are equidistant. Journal of Mathematical Physics, 2018, 59, . | 1.1 | 20 |
| 18 | Unconditional security of a K-state quantum key distribution protocol. Quantum Information Processing, 2018, 17, 1. | 2.2 | 1 |

Zbigniew PuchaÅ,a

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Conditional entropic uncertainty relations for Tsallis entropies. Quantum Information Processing, 2018, 17, 1. | 2.2 | 6 |
| 20 | Quantum noise generated by local random Hamiltonians. Physical Review A, 2017, 95, . | 2.5 | 2 |
| 21 | Symbolic integration with respect to the Haar measure on the unitary groups. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2017, 65, 21-27. | 0.8 | 51 |
| 22 | Asymptotic entropic uncertainty relations. Journal of Mathematical Physics, 2016, 57, . | 1.1 | 12 |
| 23 | Distinguishability of generic quantum states. Physical Review A, 2016, 93, . | 2.5 | 35 |
| 24 | Quantifying channels output similarity with applications to quantum control. Quantum Information Processing, 2016, 15, 1455-1468. | 2.2 | 2 |
| 25 | Exploring boundaries of quantum convex structures: Special role of unitary processes. Physical Review A, 2015, 92, . | 2.5 | 4 |
| 26 | Certainty relations, mutual entanglement, and nondisplaceable manifolds. Physical Review A, 2015, 92, . | 2.5 | 19 |
| 27 | Minimal Rényi–Ingarden–Urbanik Entropy of Multipartite Quantum States. Entropy, 2015, 17, 5063-5084. | 2.2 | 13 |
| 28 | Quantum control robust with respect to coupling with an external environment. Quantum Information Processing, 2015, 14, 437-446. | 2.2 | 7 |
| 29 | Real numerical shadow and generalized B-splines. Linear Algebra and Its Applications, 2015, 479, 12-51. | 0.9 | 3 |
| 30 | Quantum control with spectral constraints. Quantum Information Processing, 2014, 13, 227-237. | 2.2 | 8 |
| 31 | Diagonal unitary entangling gates and contradiagonal quantum states. Physical Review A, 2014, 90, . | 2.5 | 23 |
| 32 | Strong majorization entropic uncertainty relations. Physical Review A, 2014, 89, . | 2.5 | 119 |
| 33 | Constructive entanglement test from triangle inequality. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 424035. | 2.1 | 8 |
| 34 | Local controllability of quantum systems. Quantum Information Processing, 2013, 12, 459-466. | 2.2 | 4 |
| 35 | Increasing the security of the ping–pong protocol by using many mutually unbiased bases. Quantum Information Processing, 2013, 12, 569-576. | 2.2 | 21 |
| 36 | A MODEL FOR QUANTUM QUEUE. International Journal of Quantum Information, 2013, 11, 1350023. | 1.1 | 2 |

Zbigniew PuchaÅ,a

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Majorization entropic uncertainty relations. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 272002. | 2.1 | 122 |
| 38 | Entropic trade-off relations for quantum operations. Physical Review A, 2013, 87, . | 2.5 | 20 |
| 39 | ANALYSIS OF PATENT ACTIVITY IN THE FIELD OF QUANTUM INFORMATION PROCESSING. International Journal of Quantum Information, 2013, 11, 1350007. | 1.1 | 6 |
| 40 | Enhancing Pseudo-Telepathy in the Magic Square Game. PLoS ONE, 2013, 8, e64694. | 2.5 | 9 |
| 41 | Notes on the Riccati operator equation in open quantum systems. Journal of Mathematical Physics, 2012, 53, 012106. | 1.1 | 1 |
| 42 | Collectibility for mixed quantum states. Physical Review A, 2012, 86, . | 2.5 | 13 |
| 43 | Qubit flip game on a Heisenberg spin chain. Quantum Information Processing, 2012, 11, 1571-1583. | 2.2 | 15 |
| 44 | Restricted numerical shadow and the geometry of quantum entanglement. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 415309. | 2.1 | 13 |
| 45 | Numerical shadow and geometry of quantum states. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 335301. | 2.1 | 22 |
| 46 | Probability measure generated by the superfidelity. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 405301. | 2.1 | 4 |
| 47 | Stationary states of two-level open quantum systems. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 215306. | 2.1 | 2 |
| 48 | Experimentally feasible measures of distance between quantum operations. Quantum Information Processing, 2011, 10, 1-12. | 2.2 | 22 |
| 49 | Product numerical range in a space with tensor product structure. Linear Algebra and Its Applications, 2011, 434, 327-342. | 0.9 | 21 |
| 50 | Numerical shadows: Measures and densities on the numerical range. Linear Algebra and Its Applications, 2011, 434, 2042-2080. | 0.9 | 9 |
| 51 | Eigengestures for Natural Human Computer Interface. Advances in Intelligent and Soft Computing, 2011, , 49-56. | 0.2 | 3 |
| 52 | Restricted numerical range: A versatile tool in the theory of quantum information. Journal of Mathematical Physics, 2010, 51, . | 1.1 | 29 |
| 53 | Bound on trace distance based on superfidelity. Physical Review A, 2009, 79, . | 2.5 | 21 |
| 54 | The exact asymptotic of the collision time tail distribution for independent Brownian particles with different drifts. Probability Theory and Related Fields, 2008, 142, 595-617. | 1.8 | 8 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Quantum state discrimination: A geometric approach. Physical Review A, 2008, 77, . | 2.5 | 40 |
| 56 | Multiple-shot and unambiguous discrimination of von Neumann measurements. Quantum - the Open Journal for Quantum Science, 0, 5, 425. | 0.0 | 7 |
| 57 | Gauge invariant information concerning quantum channels. Quantum - the Open Journal for Quantum Science, 0, 2, 60. | 0.0 | 15 |