# Jerzy Dajka

List of Publications by Year
in descending order



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|---|---|---|---|
| 61 papers | 384 citations | 932766 10 h-index | 887659 17 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 280 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Distance between quantum states in the presence of initial qubit-environment correlations: A comparative study. Physical Review A, 2011, 84, . | 1.0 | 71 |
| 2 | Origination and survival of qudit-qudit entanglement in open systems. Physical Review A, 2008, 77, . | 1.0 | 30 |
| 3 | Geometric phase as a determinant of a qubitâ€" environment coupling. Quantum Information Processing, 2011, 10, 85-96. | 1.0 | 23 |
| 4 | Entanglement persistence in contact with the environment: exact results. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F879-F886. | 0.7 | 19 |
| 5 | Negativity and quantum discord in Davies environments. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 485306. | 0.7 | 17 |
| 6 | Dephasing of qubits by the SchrÃ¶dinger cat. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 374-377. | 1.3 | 14 |
| 7 | Leggett-Garg inequality for qubits coupled to thermal environment. Physical Review A, 2015, 91, . | 1.0 | 14 |
| 8 | Leggett-GargK3quantity discriminates between Dirac and Majorana neutrinos. Physical Review D, 2017, 96, . | 1.6 | 14 |
| 9 | Surgical treatment of benign lesions and pathologic fractures of the proximal femur in children. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 615-624. | 1.3 | 13 |
| 10 | Bifurcations of the geometric phase of a qubit asymmetrically coupled to the environment. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 442001. | 0.7 | 12 |
| 11 | Quantum contextuality of a single neutrino under interactions with matter. New Journal of Physics, 2018, 20, 063040. | 1.2 | 10 |
| 12 | Quantum Two Player Game in Thermal Environment. PLoS ONE, 2015, 10, e0134916. | 1.1 | 10 |
| 13 | New symmetry in the Rabi model. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 265302. | 0.7 | 9 |
| 14 | Temperature-independent teleportation of qubits in Davies environments. Quantum Information Processing, 2015, 14, 135-145. | 1.0 | 9 |
| 15 | Entanglement of distant flux qubits mediated by non-classical electromagnetic field. Journal of Physics Condensed Matter, 2008, 20, 275219. | 0.7 | 8 |
| 16 | Entanglement of qubits via a nonlinear resonator. Journal of Physics Condensed Matter, 2009, 21, 235602. | 0.7 | 8 |
| 17 | Multi-photon Rabi model: Generalized parity and its applications. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3205-3208. | 0.9 | 7 |
| 18 | Collective behavior of coupled mesoscopic cylinders. Physica Status Solidi (B): Basic Research, 2005, 242, 196-202. | 0.7 | 5 |

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|---|---|---|---|
| 19 | The influence of entangled photons on distant persistent currents. Journal of Physics Condensed Matter, 2006, 18, 1367-1379. | 0.7 | 5 |
| 20 | Relation Between Purity of an Open Qubit Dynamics and Its Initial Correlation with an Environment. International Journal of Theoretical Physics, 2013, 52, 1148-1159. | 0.5 | 5 |
| 21 | Disentanglement of Qubits in Classical Limit of Interaction. International Journal of Theoretical Physics, 2014, 53, 870-880. | 0.5 | 5 |
| 22 | Payoffs and Coherence of a Quantum Two-Player Game in a Thermal Environment. Entropy, 2015, 17, 7736-7751. | 1.1 | 5 |
| 23 | The Quantum Cheshire Cat Effect in the Presence of Decoherence. Advances in Mathematical Physics, 2018, 2018, 1-8. | 0.4 | 5 |
| 24 | Faint trace of a particle in a noisy Vaidman three-path interferometer. Scientific Reports, 2021, 11, 1123. | 1.6 | 5 |
| 25 | Magnetic flux in a mesoscopic SQUID controlled by nonclassical electromagnetic fields. Physical Review B, 2009, 80, . | 1.1 | 4 |
| 26 | Current in Hubbard rings manipulated via magnetic flux. Journal of Physics Condensed Matter, 2010, 22, 245301. | 0.7 | 4 |
| 27 | Gazeauâ€"Klauder cat states. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 244006. | 0.7 | 4 |
| 28 | The Trace Distance and Linear Entropy of Qubit States: The Role of Initial Qubit-Environment Correlations. Reports on Mathematical Physics, 2012, 70, 193-204. | 0.4 | 4 |
| 29 | Interference of qubits in pure dephasing and almost pure dephasing environments. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 275302. | 0.7 | 4 |
| 30 | Self-averaging of random quantum dynamics. Physical Review A, 2018, 98, . | 1.0 | 4 |
| 31 | Binary Communication with Gazeauâ€"Klauder Coherent States. Entropy, 2020, 22, 201. | 1.1 | 4 |
| 32 | Scatteringâ€"Like Control of the Cheshire Cat Effect in Open Quantum Systems. Quantum Reports, 2020, 2, 1-11. | 0.6 | 4 |
| 33 | The influence of non-classical electromagnetic fields on persistent currents. Physica Status Solidi (B): Basic Research, 2005, 242, 296-302. | 0.7 | 3 |
| 34 | Reversal of relaxation due to a dephasing environment. Physical Review A, 2015, 91, . | 1.0 | 3 |
| 35 | Geometric speed limit of neutrino oscillation. Quantum Information Processing, 2021, 20, 1. | 1.0 | 3 |
| 36 | Entanglement swapping in presence of dephasing. Physica Status Solidi (B): Basic Research, 2009, 246, 936-940. | 0.7 | 2 |

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| 37 | Transmission of magnetic signals in noisy mesorings. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01030. | 0.9 | 2 |
| 38 | Leggettâ€“Garg inequalities for a quantum top affected by classical noise. Quantum Information Processing, 2016, 15, 4911-4925. | 1.0 | 2 |
| 39 | Quantum cloning disturbed by thermal Davies environment. Quantum Information Processing, 2016, 15, 2661-2673. | 1.0 | 2 |
| 40 | Decoherence in flux qubits on mesoscopic nonsuperconducting rings. Physica Status Solidi (B): Basic Research, 2007, 244, 2470-2475. | 0.7 | 1 |
| 41 | Flux-biased mesoscopic rings. Physica Status Solidi (B): Basic Research, 2007, 244, 2432-2436. | 0.7 | 1 |
| 42 | Analytically solvable model for the entanglement via scattering-like mechanisms. Quantum Information Processing, 2009, 8, 461-475. | 1.0 | 1 |
| 43 | Preface: Phys. Status Solidi B 246/5. Physica Status Solidi (B): Basic Research, 2009, 246, 929-929. | 0.7 | 1 |
| 44 | Initial states of qubitâ€“environment models leading to conserved quantities. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 235301. | 0.7 | 1 |
| 45 | Reply to â€œComment on: â€˜Multi-photon Rabi model: Generalized parity and its applicationsâ€™ [Phys. Lett. A 377 (2013) 3205]â€•[Phys. Lett. A 378 (2014) 1969]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1970. | 0.9 | 1 |
| 46 | Violation of Leggettâ€"Garg inequalities for quantum-classical hybrids. Journal of Physics: Conference Series, 2015, 626, 012038. | 0.3 | 1 |
| 47 | Energetics of an rf SQUID Coupled to Two Thermal Reservoirs. PLoS ONE, 2015, 10, e0143912. | 1.1 | 1 |
| 48 | Multi-partite entanglement in Davies environment. European Physical Journal: Special Topics, 2019, 227, 2037-2041. | 1.2 | 1 |
| 49 | Neutrino Oscillations in the Presence of Matter and Continuous Non-Selective Measurement. Symmetry, 2020, 12, 1296. | 1.1 | 1 |
| 50 | Currents in a Quantum Nanoring Controlled by Non-Classical Electromagnetic Field. Entropy, 2021, 23, 652. | 1.1 | 1 |
| 51 | Supracondylar Fractures of the Humerus: Association of Neurovascular Lesions with Degree of Fracture Displacement in Childrenâ€"A Retrospective Study. Children, 2022, 9, 308. | 0.6 | 1 |
| 52 | Algebraization of Spectral Problems in the Bargmannâ€"Fock Representation. International Journal of Theoretical Physics, 2003, 42, 1059-1064. | 0.5 | 0 |
| 53 | Holonomy in Quaternionic Quantum Mechanics. International Journal of Theoretical Physics, 2003, 42, 1053-1057. | 0.5 | 0 |
| 54 | Preface: phys. stat. sol. (b) 244/7. Physica Status Solidi (B): Basic Research, 2007, 244, 2297-2297. | 0.7 | 0 |

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|---|---|---|---|
| 55 | Squeezing of magnetic flux in nanorings. Journal of Physics Condensed Matter, 2012, 24, 495701. | 0.7 | 0 |
| 56 | Reply to Comment on â€˜Initial states of qubitâ€“environment models leading to conserved quantitiesâ€™. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 168002. | 0.7 | 0 |
| 57 | Reply to Comment on â€˜Gazeauâ€“Klauder cat statesâ€™. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 238002. | 0.7 | 0 |
| 58 | Distinguishing quantum states using time-traveling qubits in the presence of thermal environments. Physical Review A, 2017, 95, . | 1.0 | 0 |
| 59 | Leggettâ€“Garg inequalities violation via the Fermi contact hyperfine interaction. Fortschritte Der Physik, 2017, 65, 1600041. | 1.5 | 0 |
| 60 | Statistical image analysis and escort histograms in characterization of articular cartilage repair in a skeleton animal model. PLoS ONE, 2021, 16, e0252505. | 1.1 | 0 |
| 61 | Histories of Neutrino Oscillation of Consistency Induced by the Presence of Normal Matter. Universe, 2022, 8, 106. | 0.9 | 0 |