

Remigiusz Augusiak

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,550
citations

236833

25
h-index

214721

47
g-index

76
all docs

76
docs citations

76
times ranked

2060
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Device-Independent Certification of Maximal Randomness from Pure Entangled Two-Qutrit States Using Non-Projective Measurements. <i>Entropy</i> , 2022, 24, 350. | 1.1 | 3 |
| 2 | Self-testing of multipartite Greenberger-Horne-Zeilinger states of arbitrary local dimension with arbitrary number of measurements per party. <i>Physical Review A</i> , 2022, 105, . | 1.0 | 6 |
| 3 | Self-testing maximally-dimensional genuinely entangled subspaces within the stabilizer formalism. <i>New Journal of Physics</i> , 2021, 23, 043042. | 1.2 | 8 |
| 4 | Perfect discrimination of quantum measurements using entangled systems. <i>New Journal of Physics</i> , 2021, 23, 043021. | 1.2 | 3 |
| 5 | Simple sufficient condition for subspace to be completely or genuinely entangled. <i>New Journal of Physics</i> , 2021, 23, 103016. | 1.2 | 5 |
| 6 | Self-testing quantum systems of arbitrary local dimension with minimal number of measurements. <i>Npj Quantum Information</i> , 2021, 7, . | 2.8 | 19 |
| 7 | Certification of incompatible measurements using quantum steering. , 2021, , . | | 1 |
| 8 | An approach to constructing genuinely entangled subspaces of maximal dimension. <i>Quantum Information Processing</i> , 2020, 19, 1. | 1.0 | 8 |
| 9 | Scalable Bell Inequalities for Qubit Graph States and Robust Self-Testing. <i>Physical Review Letters</i> , 2020, 124, 020402. | 2.9 | 35 |
| 10 | Device-Independent Certification of Genuinely Entangled Subspaces. <i>Physical Review Letters</i> , 2020, 125, 260507. | 2.9 | 16 |
| 11 | Maximal randomness from partially entangled states. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 14 |
| 12 | Bell inequalities tailored to the Greenberger-Horne-Zeilinger states of arbitrary local dimension. <i>New Journal of Physics</i> , 2019, 21, 113001. | 1.2 | 9 |
| 13 | Bell correlation depth in many-body systems. <i>Physical Review A</i> , 2019, 100, . | 1.0 | 24 |
| 14 | Optimization of device-independent witnesses of entanglement depth from two-body correlators. <i>Physical Review A</i> , 2019, 100, . | 1.0 | 13 |
| 15 | Device-Independent Witnesses of Entanglement Depth from Two-Body Correlators. <i>Physical Review Letters</i> , 2019, 123, 100507. | 2.9 | 27 |
| 16 | Entanglement of genuinely entangled subspaces and states: Exact, approximate, and numerical results. <i>Physical Review A</i> , 2019, 100, . | 1.0 | 9 |
| 17 | Multidimensional quantum entanglement with large-scale integrated optics. <i>Science</i> , 2018, 360, 285-291. | 6.0 | 554 |
| 18 | Self-testing multipartite entangled states through projections onto two systems. <i>New Journal of Physics</i> , 2018, 20, 083041. | 1.2 | 47 |

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|----|--|-----|-----------|
| 19 | From unextendible product bases to genuinely entangled subspaces. Physical Review A, 2018, 98, . | 1.0 | 30 |
| 20 | Constructing genuinely entangled multipartite states with applications to local hidden variables and local hidden states models. Physical Review A, 2018, 98, . | 1.0 | 12 |
| 21 | Unbounded randomness certification using sequences of measurements. Physical Review A, 2017, 95, . | 1.0 | 75 |
| 22 | Tightness of correlation inequalities with no quantum violation. Physical Review A, 2017, 95, . | 1.0 | 5 |
| 23 | Simple and tight monogamy relations for a class of Bell inequalities. Physical Review A, 2017, 95, . | 1.0 | 2 |
| 24 | Energy as a Detector of Nonlocality of Many-Body Spin Systems. Physical Review X, 2017, 7, . | 2.8 | 27 |
| 25 | Bell Inequalities Tailored to Maximally Entangled States. Physical Review Letters, 2017, 119, 040402. | 2.9 | 50 |
| 26 | Random Bosonic States for Robust Quantum Metrology. , 2017, , . | | 0 |
| 27 | Random Bosonic States for Robust Quantum Metrology. Physical Review X, 2016, 6, . | 2.8 | 62 |
| 28 | Generalized xor games with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:math} \rangle \text{outcomes and the task of nonlocal computation. Physical Review A, 2016, 93, .$ | 1.0 | 10 |
| 29 | Sufficient separability criteria and linear maps. Physical Review A, 2016, 93, . | 1.0 | 11 |
| 30 | Asymptotic role of entanglement in quantum metrology. Physical Review A, 2016, 94, . | 1.0 | 24 |
| 31 | Self-testing protocols based on the chained Bell inequalities. New Journal of Physics, 2016, 18, 035013. | 1.2 | 43 |
| 32 | Communication Strength of Correlations Violating Monogamy Relations. Foundations of Physics, 2016, 46, 620-634. | 0.6 | 0 |
| 33 | Guess Your Neighbour's Input: No Quantum Advantage but an Advantage for Quantum Theory. Fundamental Theories of Physics, 2016, , 465-496. | 0.1 | 2 |
| 34 | Inequivalence of entanglement, steering, and Bell nonlocality for general measurements. Physical Review A, 2015, 92, . | 1.0 | 165 |
| 35 | Progress towards a unified approach to entanglement distribution. Physical Review A, 2015, 92, . | 1.0 | 15 |
| 36 | Entanglement and Nonlocality are Inequivalent for Any Number of Parties. Physical Review Letters, 2015, 115, 030404. | 2.9 | 41 |

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|----|--|-----|-----------|
| 37 | Nonlocality in many-body quantum systems detected with two-body correlators. <i>Annals of Physics</i> , 2015, 362, 370-423. | 1.0 | 43 |
| 38 | Entanglement and the three-dimensionality of the Bloch ball. <i>Journal of Mathematical Physics</i> , 2014, 55, . | 0.5 | 16 |
| 39 | Checking the optimality of entanglement witnesses: an application to structural physical approximations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 065301. | 0.7 | 10 |
| 40 | Elemental and tight monogamy relations in nonsignaling theories. <i>Physical Review A</i> , 2014, 90, . | 1.0 | 22 |
| 41 | Local hidden-variable models for entangled quantum states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424002. | 0.7 | 56 |
| 42 | Translationally invariant multipartite Bell inequalities involving only two-body correlators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424024. | 0.7 | 23 |
| 43 | Exploring the local orthogonality principle. <i>Physical Review A</i> , 2014, 89, . | 1.0 | 31 |
| 44 | Detecting nonlocality in many-body quantum states. <i>Science</i> , 2014, 344, 1256-1258. | 6.0 | 129 |
| 45 | Local orthogonality as a multipartite principle for quantum correlations. <i>Nature Communications</i> , 2013, 4, 2263. | 5.8 | 143 |
| 46 | Separability in terms of a single entanglement witness. <i>Physical Review A</i> , 2013, 88, . | 1.0 | 9 |
| 47 | Existence of an information unit as a postulate of quantum theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16373-16377. | 3.3 | 70 |
| 48 | Entangled symmetric states of N qubits with all positive partial transpositions. <i>Physical Review A</i> , 2012, 86, . | 1.0 | 28 |
| 49 | Many-Body Physics from a Quantum Information Perspective. <i>Lecture Notes in Physics</i> , 2012, , 245-294. | 0.3 | 11 |
| 50 | Tight Bell inequalities with no quantum violation from qubit unextendible product bases. <i>Physical Review A</i> , 2012, 85, . | 1.0 | 23 |
| 51 | Four-qubit entangled symmetric states with positive partial transpositions. <i>Physical Review A</i> , 2012, 85, . | 1.0 | 38 |
| 52 | A note on the optimality of decomposable entanglement witnesses and completely entangled subspaces. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 212001. | 0.7 | 29 |
| 53 | On structural physical approximations and entanglement breaking maps. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 185308. | 0.7 | 24 |
| 54 | Optimal decomposable witnesses without the spanning property. <i>Physical Review A</i> , 2011, 84, . | 1.0 | 20 |

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|----|--|-----|-----------|
| 55 | Bell Inequalities with No Quantum Violation and Unextendable Product Bases. <i>Physical Review Letters</i> , 2011, 107, 070401. | 2.9 | 28 |
| 56 | Searching for extremal PPT entangled states. <i>Optics Communications</i> , 2010, 283, 805-813. | 1.0 | 25 |
| 57 | Perfect Quantum Privacy Implies Nonlocality. <i>Physical Review Letters</i> , 2010, 104, 230401. | 2.9 | 16 |
| 58 | Quantum kinetic Ising models. <i>New Journal of Physics</i> , 2010, 12, 025021. | 1.2 | 7 |
| 59 | Unified Framework for Correlations in Terms of Local Quantum Observables. <i>Physical Review Letters</i> , 2010, 104, 140404. | 2.9 | 62 |
| 60 | Multipartite secret key distillation and bound entanglement. <i>Physical Review A</i> , 2009, 80, . | 1.0 | 27 |
| 61 | Positive maps, majorization, entropic inequalities and detection of entanglement. <i>New Journal of Physics</i> , 2009, 11, 053018. | 1.2 | 8 |
| 62 | W-like bound entangled states and secure key distillation. <i>Europhysics Letters</i> , 2009, 85, 50001. | 0.7 | 5 |
| 63 | Towards measurable bounds on entanglement measures. <i>Quantum Information Processing</i> , 2009, 8, 493-521. | 1.0 | 17 |
| 64 | Universal observable detecting all two-qubit entanglement and determinant-based separability tests. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 65 |
| 65 | Beyond the standard entropic inequalities: Stronger scalar separability criteria and their applications. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 8 |
| 66 | General scheme for construction of scalar separability criteria from positive maps. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 6 |
| 67 | Scattering of Dirac particles from nonlocal separable potentials: The eigenchannel approach. <i>Physical Review C</i> , 2007, 75, . | 1.1 | 0 |
| 68 | Rotationally invariant bipartite states and bound entanglement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 363, 182-191. | 0.9 | 7 |
| 69 | General construction of noiseless networks detecting entanglement with the help of linear maps. <i>Physical Review A</i> , 2006, 74, . | 1.0 | 19 |
| 70 | Quantum states representing perfectly secure bits are always distillable. <i>Physical Review A</i> , 2006, 74, . | 1.0 | 15 |
| 71 | Bound entanglement maximally violating Bell inequalities: Quantum entanglement is not fully equivalent to cryptographic security. <i>Physical Review A</i> , 2006, 74, . | 1.0 | 46 |
| 72 | Generalized Smolin states and their properties. <i>Physical Review A</i> , 2006, 73, . | 1.0 | 44 |

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|----|---|-----|-----------|
| 73 | Non-relativistic quantum scattering from non-local separable potentials: the eigenchannel approach. <i>Annalen Der Physik</i> , 2005, 14, 398-407. | 0.9 | 4 |
| 74 | Maximal nonlocality from maximal entanglement and mutually unbiased bases, and self-testing of two-qutrit quantum systems. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 198. | 0.0 | 32 |
| 75 | Sum-of-squares decompositions for a family of noncontextuality inequalities and self-testing of quantum devices. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 302. | 0.0 | 8 |