

# Vittorio Giovannetti

## List of Publications by Year in descending order

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Version: 2024-02-01

272  
papers

19,934  
citations

16451

64  
h-index

11607

135  
g-index

274  
all docs

274  
docs citations

274  
times ranked

8378  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Quantum collision models: Open system dynamics from repeated interactions. <i>Physics Reports</i> , 2022, 954, 1-70.   | 25.6 | 68        |
| 2  | Quantum capacity analysis of multi-level amplitude damping channels. <i>Communications Physics</i> , 2021, 4, .  | 5.3  | 15        |
| 3  | Incompatibility in quantum parameter estimation. <i>New Journal of Physics</i> , 2021, 23, 063055.   | 2.9  | 21        |
| 4  | Maximum-power heat engines and refrigerators in the fast-driving regime. <i>Physical Review A</i> , 2021, 104, .   | 2.5  | 18        |
| 5  | Agnostic Dolinar receiver for coherent-state classification. <i>Physical Review A</i> , 2021, 104, .   | 2.5  | 2         |
| 6  | Quantum Energy Lines and the Optimal Output Ergotropy Problem. <i>Physical Review Letters</i> , 2021, 127, 210601.   | 7.8  | 6         |
| 7  | Estimating Quantum and Private Capacities of Gaussian Channels via Degradable Extensions. <i>Physical Review Letters</i> , 2021, 127, 210501.                            | 7.8  | 11        |
| 8  | Achieving Heisenberg scaling with maximally entangled states: An analytic upper bound for the attainable root-mean-square error. <i>Physical Review A</i> , 2020, 102, . | 2.5  | 14        |
| 9  | Theory of photon condensation in a spatially varying electromagnetic field. <i>Physical Review B</i> , 2020, 102, .  | 3.2  | 62        |
| 10 | Performance of Gaussian encodings for classical communication on correlated quantum phase-noise channels. , 2020, , .  |      | 0         |
| 11 | Bosonic Quantum Communication Across Arbitrarily High Loss Channels. <i>Physical Review Letters</i> , 2020, 125, 110504.   | 7.8  | 10        |
| 12 | Quantum Flags and New Bounds on the Quantum Capacity of the Depolarizing Channel. <i>Physical Review Letters</i> , 2020, 125, 020503.                                    | 7.8  | 19        |
| 13 | Beyond the Swap Test: Optimal Estimation of Quantum State Overlap. <i>Physical Review Letters</i> , 2020, 124, 060503.   | 7.8  | 25        |
| 14 | Discrimination of thermal baths by single-qubit probes. <i>Physical Review Research</i> , 2020, 2, .   | 3.6  | 11        |
| 15 | Two-parameter Hong-Ou-Mandel dip. <i>Scientific Reports</i> , 2019, 9, 10821.  | 3.3  | 10        |
| 16 | Maximum power and corresponding efficiency for two-level heat engines and refrigerators: optimality of fast cycles. <i>New Journal of Physics</i> , 2019, 21, 103049.    | 2.9  | 50        |
| 17 | Quantum bath statistics tagging. <i>Physical Review A</i> , 2019, 100, .   | 2.5  | 5         |
| 18 | Optimal Universal Learning Machines for Quantum State Discrimination. <i>IEEE Transactions on Information Theory</i> , 2019, 65, 5931-5944.                              | 2.4  | 16        |

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|----|--|------|-----------|
| 19 | Quantum-capacity bounds in spin-network communication channels. <i>Physical Review A</i> , 2019, 100, .  | 2.5  | 4         |
| 20 | Cavity quantum electrodynamics of strongly correlated electron systems: A no-go theorem for photon condensation. <i>Physical Review B</i> , 2019, 100, . | 3.2  | 74        |
| 21 | Charger-mediated energy transfer for quantum batteries: An open-system approach. <i>Physical Review B</i> , 2019, 99, .                                  | 3.2  | 108       |
| 22 | Extractable Work, the Role of Correlations, and Asymptotic Freedom in Quantum Batteries. <i>Physical Review Letters</i> , 2019, 122, 047702.             | 7.8  | 172       |
| 23 | Optimal quantum subtracting machine. <i>Physical Review A</i> , 2019, 99, .  | 2.5  | 0         |
| 24 | Non-Markov enhancement of maximum power for quantum thermal machines. <i>Physical Review A</i> , 2019, 99, .   | 2.5  | 43        |
| 25 | Degradation of entanglement in Markovian noise. <i>Physical Review A</i> , 2019, 99, .   | 2.5  | 4         |
| 26 | All-optical implementation of collision-based evolutions of open quantum systems. <i>Scientific Reports</i> , 2019, 9, 3205.                             | 3.3  | 36        |
| 27 | Optimal Gaussian metrology for generic multimode interferometric circuit. <i>New Journal of Physics</i> , 2019, 21, 033014.                              | 2.9  | 19        |
| 28 | Bridging thermodynamics and metrology in nonequilibrium quantum thermometry. <i>Physical Review A</i> , 2018, 98, .                                      | 2.5  | 37        |
| 29 | Charger-mediated energy transfer in exactly solvable models for quantum batteries. <i>Physical Review B</i> , 2018, 98, .                                | 3.2  | 113       |
| 30 | Variational approach to the optimal control of coherently driven, open quantum system dynamics. <i>Physical Review A</i> , 2018, 98, .                   | 2.5  | 12        |
| 31 | Entropy production and asymptotic factorization via thermalization: A collisional model approach. <i>Physical Review A</i> , 2018, 98, .                 | 2.5  | 35        |
| 32 | Gaussian optimizers for entropic inequalities in quantum information. <i>Journal of Mathematical Physics</i> , 2018, 59, .                               | 1.1  | 20        |
| 33 | Entanglement protection via periodic environment resetting in continuous-time quantum-dynamical processes. <i>Physical Review A</i> , 2018, 98, .        | 2.5  | 4         |
| 34 | Dynamical approach to ancilla-assisted quantum thermometry. <i>Physical Review A</i> , 2018, 98, .   | 2.5  | 23        |
| 35 | Narrow bounds for the quantum capacity of thermal attenuators. <i>Nature Communications</i> , 2018, 9, 4339.   | 12.8 | 33        |
| 36 | Asymmetric information capacities of reciprocal pairs of quantum channels. <i>Physical Review A</i> , 2018, 97, .  | 2.5  | 1         |

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|----|---|-----|-----------|
| 37 | The One-Mode Quantum-Limited Gaussian Attenuator and Amplifier Have Gaussian Maximizers. <i>Annales Henri Poincare</i> , 2018, 19, 2919-2953. | 1.7 | 6         |
| 38 | Optimal thermodynamic control in open quantum systems. <i>Physical Review A</i> , 2018, 98, .   | 2.5 | 32        |
| 39 | Interferometric modulation of quantum cascade interactions. <i>Physical Review A</i> , 2018, 97, .  | 2.5 | 8         |
| 40 | Optimal quantum state discrimination via nested binary measurements. <i>Physical Review A</i> , 2017, 95, .                                   | 2.5 | 10        |
| 41 | Amending entanglement-breaking channels via intermediate unitary operations. <i>Physical Review A</i> , 2017, 96, .                           | 2.5 | 9         |
| 42 | Optimal Continuous Variable Quantum Teleportation with Limited Resources. <i>Physical Review Letters</i> , 2017, 119, 120503.                 | 7.8 | 39        |
| 43 | Versatile Gaussian probes for squeezing estimation. <i>Physical Review A</i> , 2017, 95, .  | 2.5 | 10        |
| 44 | Estimating temperature via sequential measurements. <i>Physical Review A</i> , 2017, 96, .  | 2.5 | 41        |
| 45 | Capacity of coherent-state adaptive decoders with interferometry and single-mode detectors. <i>Physical Review A</i> , 2017, 96, .            | 2.5 | 9         |
| 46 | Slow Dynamics and Thermodynamics of Open Quantum Systems. <i>Physical Review Letters</i> , 2017, 119, 050601.                                 | 7.8 | 117       |
| 47 | Gaussian States Minimize the Output Entropy of One-Mode Quantum Gaussian Channels. <i>Physical Review Letters</i> , 2017, 118, 160503.        | 7.8 | 24        |
| 48 | Locally optimal symplectic control of multimode Gaussian states. <i>Quantum Science and Technology</i> , 2017, 2, 044014.                     | 5.8 | 3         |
| 49 | Lindbladian purification. <i>Quantum Science and Technology</i> , 2017, 2, 024001.  | 5.8 | 1         |
| 50 | Cut-and-paste restoration of entanglement transmission. <i>Physical Review A</i> , 2017, 96, .  | 2.5 | 12        |
| 51 | Interferometric quantum cascade systems. <i>Physical Review A</i> , 2017, 95, .   | 2.5 | 10        |
| 52 | Optimal processes for probabilistic work extraction beyond the second law. <i>Scientific Reports</i> , 2016, 6, 29282.                        | 3.3 | 13        |
| 53 | Multiphase Hadamard receivers for classical communication on lossy bosonic channels. <i>Physical Review A</i> , 2016, 94, .                   | 2.5 | 17        |
| 54 | Entanglement-saving channels. <i>Journal of Mathematical Physics</i> , 2016, 57, .  | 1.1 | 9         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Passive States Optimize the Output of Bosonic Gaussian Quantum Channels. IEEE Transactions on Information Theory, 2016, 62, 2895-2906.                                     | 2.4  | 31        |
| 56 | Building versatile bipartite probes for quantum metrology. New Journal of Physics, 2016, 18, 013049.   | 2.9  | 17        |
| 57 | Universal control induced by noise. Physical Review A, 2016, 93, .   | 2.5  | 11        |
| 58 | Coherent-state discrimination via nonheralded probabilistic amplification. Physical Review A, 2016, 93, .  | 2.5  | 22        |
| 59 | Passive states as optimal inputs for single-jump lossy quantum channels. Physical Review A, 2016, 93, .  | 2.5  | 12        |
| 60 | Modulated phases of graphene quantum Hall polariton fluids. Nature Communications, 2016, 7, 13355.   | 12.8 | 9         |
| 61 | Local quantum thermal susceptibility. Nature Communications, 2016, 7, 12782.   | 12.8 | 81        |
| 62 | Achieving the Holevo bound via a bisection decoding protocol. Journal of Mathematical Physics, 2016, 57, 062204.   | 1.1  | 12        |
| 63 | Two-mode bosonic quantum metrology with number fluctuations. Physical Review A, 2015, 92, .  | 2.5  | 13        |
| 64 | Separation of heat and charge currents for boosted thermoelectric conversion. Physical Review B, 2015, 91, .   | 3.2  | 45        |
| 65 | Quantum time. Physical Review D, 2015, 92, .   | 4.7  | 106       |
| 66 | Gaussian discriminating strength. Physical Review A, 2015, 92, .   | 2.5  | 21        |
| 67 | Necessity of Eigenstate Thermalization. Physical Review Letters, 2015, 115, 220401.  | 7.8  | 38        |
| 68 | Hamiltonian purification. Journal of Mathematical Physics, 2015, 56, .   | 1.1  | 6         |
| 69 | Entanglement-breaking indices. Journal of Mathematical Physics, 2015, 56, .  | 1.1  | 14        |
| 70 | Quantum estimation via sequential measurements. New Journal of Physics, 2015, 17, 113055.  | 2.9  | 20        |
| 71 | The time as an emergent property of quantum mechanics, a synthetic description of a first experimental approach. Journal of Physics: Conference Series, 2015, 626, 012019. | 0.4  | 3         |
| 72 | Magnetic thermal switch for heat management at the nanoscale. Physical Review B, 2015, 91, .   | 3.2  | 24        |

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|----|---|-----|-----------|
| 73 | Mutual information as an order parameter for quantum synchronization. <i>Physical Review A</i> , 2015, 91, .  | 2.5 | 99        |
| 74 | Thermopower of three-terminal topological superconducting systems. <i>Physical Review B</i> , 2015, 91, .   | 3.2 | 19        |
| 75 | Logic circuits from zero forcing. <i>Natural Computing</i> , 2015, 14, 485-490.   | 3.0 | 27        |
| 76 | Multimode quantum entropy power inequality. <i>Physical Review A</i> , 2015, 91, .  | 2.5 | 25        |
| 77 | All-optical non-Markovian stroboscopic quantum simulator. <i>Physical Review A</i> , 2015, 91, .  | 2.5 | 50        |
| 78 | Generating quantum discord between two distant Bose-Einstein condensates with Bell-like detection. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 798. | 2.1 | 8         |
| 79 | A Solution of Gaussian Optimizer Conjecture for Quantum Channels. <i>Communications in Mathematical Physics</i> , 2015, 334, 1553-1571.   | 2.2 | 85        |
| 80 | Majorization and additivity for multimode bosonic Gaussian channels. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2015, 182, 284-293.                              | 0.9 | 34        |
| 81 | Perturbative approach to continuous-time quantum error correction. <i>Physical Review A</i> , 2015, 91, .   | 2.5 | 12        |
| 82 | Heat flux and quantum correlations in dissipative cascaded systems. <i>Physical Review A</i> , 2015, 91, .  | 2.5 | 43        |
| 83 | Quantum optomechanical piston engines powered by heat. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 175501.   | 1.5 | 47        |
| 84 | Efficiency of quantum controlled non-Markovian thermalization. <i>New Journal of Physics</i> , 2015, 17, 063031.  | 2.9 | 32        |
| 85 | Normal form decomposition for Gaussian-to-Gaussian superoperators. <i>Journal of Mathematical Physics</i> , 2015, 56, 052202.   | 1.1 | 22        |
| 86 | Nanoscale Mach-Zehnder interferometer with spin-resolved quantum Hall edge states. <i>Physical Review B</i> , 2015, 92, .   | 3.2 | 14        |
| 87 | Discriminating strength: a bona fide measure of non-classical correlations. <i>New Journal of Physics</i> , 2014, 16, 073010.   | 2.9 | 31        |
| 88 | Toward computability of trace distance discord. <i>New Journal of Physics</i> , 2014, 16, 013038.   | 2.9 | 133       |
| 89 | Classical capacity of Gaussian thermal memory channels. <i>Physical Review A</i> , 2014, 90, .  | 2.5 | 10        |
| 90 | Theory of integer quantum Hall polaritons in graphene. <i>Physical Review B</i> , 2014, 89, .   | 3.2 | 19        |

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|-----|---|------|-----------|
| 91  | Time-optimal thermalization of single-mode Gaussian states. <i>Physical Review A</i> , 2014, 90, .  | 2.5  | 12        |
| 92  | Quantum simulation of bosonic-fermionic noninteracting particles in disordered systems via a quantum walk. <i>Physical Review A</i> , 2014, 89, . | 2.5  | 28        |
| 93  | Exponential rise of dynamical complexity in quantum computing through projections. <i>Nature Communications</i> , 2014, 5, 5173.                  | 12.8 | 38        |
| 94  | Quantum channels and memory effects. <i>Reviews of Modern Physics</i> , 2014, 86, 1203-1259.  | 45.6 | 232       |
| 95  | Quantum quenches, linear response and superfluidity out of equilibrium. <i>Europhysics Letters</i> , 2014, 107, 30002.                            | 2.0  | 13        |
| 96  | Quantum state majorization at the output of bosonic Gaussian channels. <i>Nature Communications</i> , 2014, 5, 3826.                              | 12.8 | 69        |
| 97  | Time from quantum entanglement: An experimental illustration. <i>Physical Review A</i> , 2014, 89, .  | 2.5  | 84        |
| 98  | Steady-state entanglement activation in optomechanical cavities. <i>Physical Review A</i> , 2014, 89, .   | 2.5  | 21        |
| 99  | Thermoelectric efficiency of three-terminal quantum thermal machines. <i>New Journal of Physics</i> , 2014, 16, 085001.                           | 2.9  | 84        |
| 100 | Ultimate classical communication rates of quantum optical channels. <i>Nature Photonics</i> , 2014, 8, 796-800.                                   | 31.4 | 147       |
| 101 | A generalization of the entropy power inequality to bosonic quantum systems. <i>Nature Photonics</i> , 2014, 8, 958-964.                          | 31.4 | 35        |
| 102 | Quantum Discord Determines the Interferometric Power of Quantum States. <i>Physical Review Letters</i> , 2014, 112, .                             | 7.8  | 204       |
| 103 | Dual- and Multi-rail Encoding. , 2014, , 87-122.  |      | 0         |
| 104 | Measures of Quantum Synchronization in Continuous Variable Systems. <i>Physical Review Letters</i> , 2013, 111, 103605.                           | 7.8  | 207       |
| 105 | Electromagnetic channel capacity for practical purposes. <i>Nature Photonics</i> , 2013, 7, 834-838.  | 31.4 | 17        |
| 106 | Speeding up and slowing down the relaxation of a qubit by optimal control. <i>Physical Review A</i> , 2013, 88, .                                 | 2.5  | 75        |
| 107 | Anderson localization of entangled photons in an integrated quantum walk. <i>Nature Photonics</i> , 2013, 7, 322-328.                             | 31.4 | 372       |
| 108 | Collision-model-based approach to non-Markovian quantum dynamics. <i>Physical Review A</i> , 2013, 87, .  | 2.5  | 129       |

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|-----|---|-----|-----------|
| 109 | Non-Abelian phases from quantum Zeno dynamics. <i>Physical Review A</i> , 2013, 88, .   | 2.5 | 12        |
| 110 | Thermodynamics of discrete quantum processes. <i>New Journal of Physics</i> , 2013, 15, 033022.   | 2.9 | 73        |
| 111 | Selective writing and read-out of a register of static qubits. <i>New Journal of Physics</i> , 2013, 15, 043012.  | 2.9 | 2         |
| 112 | A quantum non-Markovian collision model: incoherent swap case. <i>Physica Scripta</i> , 2013, T153, 014010.   | 2.5 | 34        |
| 113 | Topological pumping in the one-dimensional Bose-Hubbard model. <i>Physical Review B</i> , 2013, 87, .   | 3.2 | 17        |
| 114 | Efficient Universal Blind Quantum Computation. <i>Physical Review Letters</i> , 2013, 111, 230501.  | 7.8 | 59        |
| 115 | Interactions in Electronic Mach-Zehnder Interferometers with Copropagating Edge Channels. <i>Physical Review Letters</i> , 2013, 111, 036801.                           | 7.8 | 10        |
| 116 | Anderson localization of bosonic and fermionic two-particle systems with integrated optics. , 2013, , .   |     | 0         |
| 117 | Coherent edge mixing and interferometry in quantum Hall bilayers. <i>Physical Review B</i> , 2013, 87, .  | 3.2 | 2         |
| 118 | Quantum reading capacity under thermal and correlated noise. <i>Physical Review A</i> , 2013, 87, .   | 2.5 | 17        |
| 119 | Quantum parameter estimation affected by unitary disturbance. <i>Physical Review A</i> , 2013, 88, .  | 2.5 | 28        |
| 120 | Amendable Gaussian channels: Restoring entanglement via a unitary filter. <i>Physical Review A</i> , 2013, 87, .  | 2.5 | 9         |
| 121 | Minimal Self-Contained Quantum Refrigeration Machine Based on Four Quantum Dots. <i>Physical Review Letters</i> , 2013, 110, 256801.                                    | 7.8 | 107       |
| 122 | MATRIX PRODUCT STATE REPRESENTATION FOR SLATER DETERMINANTS AND CONFIGURATION INTERACTION STATES. <i>International Journal of Modern Physics B</i> , 2013, 27, 1345029. | 2.0 | 6         |
| 123 | Ergodic and mixing quantum channels in finite dimensions. <i>New Journal of Physics</i> , 2013, 15, 073045.   | 2.9 | 53        |
| 124 | Towards an Electronic Interferometer based on Spin-Resolved Quantum Hall Edge States. <i>Journal of Physics: Conference Series</i> , 2013, 456, 012019.                 | 0.4 | 4         |
| 125 | Entanglement-assisted tomography of a quantum target. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 105309.                                     | 2.1 | 3         |
| 126 | Master Equations for Correlated Quantum Channels. <i>Physical Review Letters</i> , 2012, 108, 040401.   | 7.8 | 105       |

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|-----|--|------|-----------|
| 127 | Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. <i>Physical Review B</i> , 2012, 86, .                               | 3.2  | 15        |
| 128 | Achieving the Holevo bound via sequential measurements. <i>Physical Review A</i> , 2012, 85, .   | 2.5  | 26        |
| 129 | Creating quantum correlations through local nonunitary memoryless channels. <i>Physical Review A</i> , 2012, 85, .   | 2.5  | 88        |
| 130 | Phase Estimation via Quantum Interferometry for Noisy Detectors. <i>Physical Review Letters</i> , 2012, 108, 233602.   | 7.8  | 39        |
| 131 | Probing Cooper pairs with Franson interferometry. <i>Physical Review B</i> , 2012, 86, .   | 3.2  | 5         |
| 132 | Statistical distribution of the local purity in a large quantum system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 015308.        | 2.1  | 23        |
| 133 | Drude Weight, Cyclotron Resonance, and the Dicke Model of Graphene Cavity QED. <i>Physical Review Letters</i> , 2012, 109, 267404.                           | 7.8  | 48        |
| 134 | Local-channel-induced rise of quantum correlations in continuous-variable systems. <i>Physical Review A</i> , 2012, 85, .                                    | 2.5  | 32        |
| 135 | Capacities of linear quantum optical systems. <i>Physical Review A</i> , 2012, 85, .   | 2.5  | 7         |
| 136 | High-fidelity quantum driving. <i>Nature Physics</i> , 2012, 8, 147-152.   | 16.7 | 382       |
| 137 | Teleportation transfers only speakable quantum information. <i>Physical Review A</i> , 2012, 86, .   | 2.5  | 12        |
| 138 | Sub-Heisenberg Estimation Strategies Are Ineffective. <i>Physical Review Letters</i> , 2012, 108, 210404.  | 7.8  | 70        |
| 139 | Enhancing quantum effects via periodic modulations in optomechanical systems. <i>Physical Review A</i> , 2012, 86, .   | 2.5  | 96        |
| 140 | Quantifying the noise of a quantum channel by noise addition. <i>Physical Review A</i> , 2012, 86, .   | 2.5  | 15        |
| 141 | Master equation for cascade quantum channels: a collisional approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 154003. | 1.5  | 35        |
| 142 | Proposal for a Datta-Das transistor in the quantum Hall regime. <i>Physical Review B</i> , 2012, 85, .   | 3.2  | 16        |
| 143 | Quantum Measurement Bounds beyond the Uncertainty Relations. <i>Physical Review Letters</i> , 2012, 108, 260405.   | 7.8  | 46        |
| 144 | Quantum channels and their entropic characteristics. <i>Reports on Progress in Physics</i> , 2012, 75, 046001.   | 20.1 | 124       |

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|-----|---|------|-----------|
| 145 | Quantum mechanics of time travel through post-selected teleportation. <i>Physical Review D</i> , 2011, 84, .  | 4.7  | 69        |
| 146 | Sequential Projective Measurements for Channel Decoding. <i>Physical Review Letters</i> , 2011, 106, 250501.  | 7.8  | 35        |
| 147 | Advances in quantum metrology. <i>Nature Photonics</i> , 2011, 5, 222-229.  | 31.4 | 2,567     |
| 148 | Beauty and the noisy beast. <i>Nature Physics</i> , 2011, 7, 376-377.   | 16.7 | 23        |
| 149 | Closed Timelike Curves via Postselection: Theory and Experimental Test of Consistency. <i>Physical Review Letters</i> , 2011, 106, 040403.                                | 7.8  | 104       |
| 150 | Stiffness in 1D matrix product states with periodic boundary conditions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P05021.             | 2.3  | 12        |
| 151 | Quantitative entanglement witnesses of isotropic and Werner classes via local measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 145303. | 2.1  | 4         |
| 152 | Quantum reading capacity. <i>New Journal of Physics</i> , 2011, 13, 113012.   | 2.9  | 60        |
| 153 | Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. <i>Physical Review B</i> , 2011, 83, .  | 3.2  | 27        |
| 154 | Optimal unitary dilation for bosonic Gaussian channels. <i>Physical Review A</i> , 2011, 84, .  | 2.5  | 24        |
| 155 | Enhanced quantum communication via optical refocusing. <i>Physical Review A</i> , 2011, 84, .   | 2.5  | 8         |
| 156 | Time-bin entanglement of quasiparticles in semiconductor devices. <i>Physical Review B</i> , 2011, 84, .  | 3.2  | 5         |
| 157 | Edge channel mixing induced by potential steps in an integer quantum Hall system. <i>Physical Review B</i> , 2011, 83, .  | 3.2  | 10        |
| 158 | Spin-supersolid phase in Heisenberg chains: A characterization via matrix product states with periodic boundary conditions. <i>Physical Review B</i> , 2011, 83, .        | 3.2  | 13        |
| 159 | Controlled Coupling of Spin-Resolved Quantum Hall Edge States. <i>Physical Review Letters</i> , 2011, 107, 236804.  | 7.8  | 49        |
| 160 | Entanglement renormalization and boundary critical phenomena. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, L03001.                        | 2.3  | 9         |
| 161 | Communication at the quantum speed limit along a spin chain. <i>Physical Review A</i> , 2010, 82, .   | 2.5  | 86        |
| 162 | Quantum Private Queries: Security Analysis. <i>IEEE Transactions on Information Theory</i> , 2010, 56, 3465-3477.   | 2.4  | 76        |

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|-----|--|-----|-----------|
| 163 | Capacities of Lossy Bosonic Memory Channels. <i>Physical Review Letters</i> , 2010, 104, 030501.   | 7.8 | 33        |
| 164 | Coherent Detection of Electron Dephasing. <i>Physical Review Letters</i> , 2010, 104, 170403.  | 7.8 | 9         |
| 165 | Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , 2010, 82, .  | 3.2 | 13        |
| 166 | Memory effects in attenuation and amplification quantum processes. <i>Physical Review A</i> , 2010, 82, .  | 2.5 | 13        |
| 167 | Quantum defragmentation algorithm. <i>Physical Review A</i> , 2010, 82, .  | 2.5 | 1         |
| 168 | Publisher's Note: Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays [ <i>Phys. Rev. A</i> 81, 061801 (2010)]. <i>Physical Review A</i> , 2010, 82, . | 2.5 | 2         |
| 169 | Homogeneous binary trees as ground states of quantum critical Hamiltonians. <i>Physical Review A</i> , 2010, 81, .   | 2.5 | 40        |
| 170 | Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays. <i>Physical Review A</i> , 2010, 81, .  | 2.5 | 111       |
| 171 | Homogeneous multiscale entanglement renormalization ansatz tensor networks for quantum critical systems. <i>New Journal of Physics</i> , 2010, 12, 075018.   | 2.9 | 6         |
| 172 | Teleportation-Induced Correlated Quantum Channels. <i>Physical Review Letters</i> , 2010, 104, 020503.   | 7.8 | 14        |
| 173 | Generalized minimal output entropy conjecture for one-mode Gaussian channels: definitions and some exact results. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 415305.                | 2.1 | 30        |
| 174 | Communication through a quantum link. <i>Physical Review A</i> , 2009, 79, .   | 2.5 | 5         |
| 175 | High-fidelity state transfer in binary-tree spin networks. <i>Physical Review A</i> , 2009, 79, .  | 2.5 | 9         |
| 176 | Critical exponents with a multiscale entanglement renormalization Ansatz channel. <i>Physical Review B</i> , 2009, 80, .   | 3.2 | 22        |
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