# David DiVincenzo

List of Publications by Year
in descending order



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|---|---|---|---|
| 187 papers | 36,360 citations | 19608 61 h-index | 3312 184 g-index |
| 195 all docs | 195 docs citations | 195 times ranked | 14645 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Circuit quantization with time-dependent magnetic fields for realistic geometries. Npj Quantum Information, 2022, 8, . | 2.8 | 18 |
| 2 | Transmon platform for quantum computing challenged by chaotic fluctuations. Nature Communications, 2022, 13, 2495. | 5.8 | 25 |
| 3 | Hardware-Encoding Grid States in a Nonreciprocal Superconducting Circuit. Physical Review X, 2021, 11, . | 2.8 | 19 |
| 4 | Blind oracular quantum computation. Quantum Science and Technology, 2021, 6, 045022. | 2.6 | 3 |
| 5 | Blind three-qubit exact Grover search on a nitrogen-vacancy-center platform. Physical Review A, 2021, 104, . | 1.0 | 1 |
| 6 | What is measured when a qubit measurement is performed on a multiqubit chip. Physical Review A, 2020, 102, . | 1.0 | 1 |
| 7 | Exact rotating wave approximation. Annals of Physics, 2020, 423, 168327. | 1.0 | 26 |
| 8 | Transmission lines and resonators based on quantum Hall plasmonics: Electromagnetic field, attenuation, and coupling to qubits. Physical Review B, 2019, 100, . | 1.1 | 10 |
| 9 | Canonical circuit quantization with linear nonreciprocal devices. Physical Review B, 2019, 99, . | 1.1 | 15 |
| 10 | Hamiltonian quantum computing with superconducting qubits. Quantum Science and Technology, 2019, 4, 035002. | 2.6 | 8 |
| 11 | Simple Impedance Response Formulas for the Dispersive Interaction Rates in the Effective Hamiltonians of Low Anharmonicity Superconducting Qubits. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 928-948. | 2.9 | 21 |
| 12 | Optimal gauge for the multimode Rabi model in circuit QED. Physical Review Research, 2019, 1, . | 1.3 | 15 |
| 13 | Nonreciprocal quantum Hall devices with driven edge magnetoplasmons in two-dimensional materials. Physical Review B, 2017, 95, . | 1.1 | 12 |
| 14 | Scientists and citizens: getting to quantum technologies. Ethics and Information Technology, 2017, 19, 247-251. | 2.3 | 5 |
| 15 | Inductively shunted transmon qubit with tunable transverse and longitudinal coupling. Physical Review B, 2017, 96, . | 1.1 | 32 |
| 16 | Three-qubit direct dispersive parity measurement with tunable coupling qubits. Physical Review B, 2017, 96, . | 1.1 | 7 |
| 17 | High-Kinetic-Inductance Superconducting Nanowire Resonators for Circuit QED in a Magnetic Field. Physical Review Applied, 2016, 5, . | 1.5 | 192 |
| 18 | Qubit quantum-dot sensors: Noise cancellation by coherent backaction, initial slips, and elliptical precession. Physical Review B, 2016, 93, . | 1.1 | 6 |

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| 19 | Circuit design implementing longitudinal coupling: A scalable scheme for superconducting qubits. Physical Review B, 2016, 93, . | 1.1 | 71 |
| 20 | Multi-qubit joint measurements in circuit QED: stochastic master equation analysis. EPJ Quantum Technology, 2016, 3, . | 2.9 | 9 |
| 21 | Methodology for bus layout for topological quantum error correcting codes. EPJ Quantum Technology, 2016, 3, . | 2.9 | 3 |
| 22 | Validity of the single-particle description and charge noise resilience for multielectron quantum dots. Physical Review B, 2015, 91, . | 1.1 | 15 |
| 23 | Monte Carlo studies of the self-correcting properties of the Majorana quantum error correction code under braiding. Physical Review B, 2015, 92, . | 1.1 | 20 |
| 24 | Simple operation sequences to couple and interchange quantum information between spin qubits of different kinds. Physical Review B, 2015, 92, . | 1.1 | 9 |
| 25 | Majorana Braiding with Thermal Noise. Physical Review Letters, 2015, 115, 120402. | 2.9 | 59 |
| 26 | The Memory Problem of Quantum Information Processing. Proceedings of the IEEE, 2015, 103, 1417-1425. | 16.4 | 3 |
| 27 | Fault-tolerant quantum computation for singlet-triplet qubits with leakage errors. Physical Review B, 2015, 91, . | 1.1 | 16 |
| 28 | Multiport impedance quantization. Annals of Physics, 2015, 361, 605-669. | 1.0 | 21 |
| 29 | Coherent backaction of quantum dot detectors: Qubit isospin precession. Physical Review B, 2014, 89, . | 1.1 | 7 |
| 30 | Dispersive qubit measurement by interferometry with parametric amplifiers. Physical Review B, 2014, 90, . | 1.1 | 44 |
| 31 | Publisherâ€™s Note: Hall Effect Gyrators and Circulators [Phys. Rev. X4, 021019 (2014)]. Physical Review X, 2014, 4, . | 2.8 | 2 |
| 32 | Publisher's Note: Blackbox quantization of superconducting circuits using exact impedance synthesis [Phys. Rev. B 90, 134504 (2014)]. Physical Review B, 2014, 90, . | 1.1 | 1 |
| 33 | Inverted singlet-triplet qubit coded on a two-electron double quantum dot. Physical Review B, 2014, 90, . | 1.1 | 12 |
| 34 | High-Fidelity Single-Qubit Gates for Two-Electron Spin Qubits in GaAs. Physical Review Letters, 2014, 113, 150501. | 2.9 | 42 |
| 35 | Stochastic-master-equation analysis of optimized three-qubit nondemolition parity measurements. Physical Review A, 2014, 89, . | 1.0 | 11 |
| 36 | Blackbox quantization of superconducting circuits using exact impedance synthesis. Physical Review B, 2014, 90, . | 1.1 | 42 |

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|---|---|---|---|
| 37 | Two-qubit couplings of singlet-triplet qubits mediated by one quantum state. Physical Review B, 2014, 90, . | 1.1 | 37 |
| 38 | Hall Effect Gyrators and Circulators. Physical Review X, 2014, 4, . | 2.8 | 50 |
| 39 | Self-consistent measurement and state tomography of an exchange-only spin qubit. Nature Nanotechnology, 2013, 8, 654-659. | 15.6 | 204 |
| 40 | Multi-qubit parity measurement in circuit quantum electrodynamics. New Journal of Physics, 2013, 15, 075001. | 1.2 | 30 |
| 41 | Noise analysis of qubits implemented in triple quantum dot systems in a Davies master equation approach. Physical Review B, 2013, 87, . | 1.1 | 19 |
| 42 | Noise-protected gate for six-electron double-dot qubit. Physical Review B, 2013, 88, . | 1.1 | 14 |
| 43 | Nonlinear spectroscopy of superconducting anharmonic resonators. New Journal of Physics, 2012, 14, 013051. | 1.2 | 6 |
| 44 | From Majorana fermions to topological order. Physical Review Letters, 2012, 108, 260504. | 2.9 | 71 |
| 45 | Editorial: PRXâ€™s Scope and Standards: A Case in Point. Physical Review X, 2012, 2, . | 2.8 | 0 |
| 46 | Quantum circuits for measuring Levin-Wen operators. Physical Review B, 2012, 86, . | 1.1 | 23 |
| 47 | Schriefferâ€“Wolff transformation for quantum many-body systems. Annals of Physics, 2011, 326, 2793-2826. | 1.0 | 351 |
| 48 | Quantum computing: An IBM perspective. IBM Journal of Research and Development, 2011, 55, 13:1-13:11. | 3.2 | 45 |
| 49 | Toward Control of Large-Scale Quantum Computing. Science, 2011, 334, 50-51. | 6.0 | 4 |
| 50 | A superconducting resonator designed for coupling to spin based qubits in quantum dots. Journal of Physics: Conference Series, 2010, 245, 012024. | 0.3 | 1 |
| 51 | Better than excellent. Nature Materials, 2010, 9, 468-469. | 13.3 | 39 |
| 52 | High-Coherence Hybrid Superconducting Qubit. Physical Review Letters, 2010, 105, 100502. | 2.9 | 99 |
| 53 | Superconducting Resonators as Beam Splitters for Linear-Optics Quantum Computation. Physical Review Letters, 2010, 104, 230502. | 2.9 | 31 |
| 54 | Readout for phase qubits without Josephson junctions. Applied Physics Letters, 2010, 96, . | 1.5 | 9 |

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| 55 | Coherent spin manipulation in an exchange-only qubit. Physical Review B, 2010, 82, . | 1.1 | 203 |
| 56 | Exploiting Kerr cross nonlinearity in circuit quantum electrodynamics for nondemolition measurements. Physical Review B, 2010, 82, . | 1.1 | 25 |
| 57 | Quantum information storage using tunable flux qubits. Journal of Physics Condensed Matter, 2010, 22, 053201. | 0.7 | 13 |
| 58 | Fault-tolerant architectures for superconducting qubits. Physica Scripta, 2009, T137, 014020. | 1.2 | 85 |
| 59 | Decoherence of floating qubits due to capacitive coupling. New Journal of Physics, 2009, 11, 033030. | 1.2 | 12 |
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| 61 | Conventional and Unconventional Quantum Physics. International Journal of Theoretical Physics, 2008, 47, 2130-2132. | 0.5 | 0 |
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| 64 | Quantum Simulation of Many-Body Hamiltonians Using Perturbation Theory with Bounded-Strength Interactions. Physical Review Letters, 2008, 101, 070503. | 2.9 | 60 |
| 65 | Effective Fault-Tolerant Quantum Computation with Slow Measurements. Physical Review Letters, 2007, 98, 020501. | 2.9 | 93 |
| 66 | Model for1/fFlux Noise in SQUIDs and Qubits. Physical Review Letters, 2007, 98, 267003. | 2.9 | 165 |
| 67 | Experimental Demonstration of an Oscillator Stabilized Josephson Flux Qubit. Physical Review Letters, 2006, 96, 127001. | 2.9 | 44 |
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