

# Eugene Dumitrescu

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

816  
citations

1163117

8  
h-index

794594

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

939  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensor Network Quantum Virtual Machine for Simulating Quantum Circuits at Exascale. ACM Transactions on Quantum Computing, 2023, 4, 1-21.	4.3	8
2	The hybrid topological longitudinal transmon qubit. Materials for Quantum Technology, 2021, 1, 021001.	3.1	0
3	Digital-Analog Quantum Simulations Using the Cross-Resonance Effect. PRX Quantum, 2021, 2, .	9.2	11
4	Robustness of vortex-bound Majorana zero modes against correlated disorder. Physical Review B, 2021, 104, .	3.2	2
5	Optical vortex manipulation for topological quantum computation. Physical Review B, 2021, 104, .	3.2	6
6	Statistical detection of Josephson, Andreev, and single quasiparticle currents in scanning tunneling microscopy. Physical Review Research, 2021, 3, .	3.6	2
7	Multifunctional Superconducting Nanowire Quantum Sensors. Physical Review Applied, 2021, 16, .	3.8	1
8	Benchmarking noise extrapolation with the OpenPulse control framework. Physical Review A, 2020, 101, .	2.5	7
9	Hamiltonian assignment for open quantum systems. Physical Review Research, 2020, 2, .	3.6	6
10	Scalar quantum field theories as a benchmark for near-term quantum computers. Physical Review A, 2019, 99, .	2.5	51
11	Colossal photon bunching in quasiparticle-mediated nanodiamond cathodoluminescence. Physical Review B, 2018, 97, .	3.2	26
12	Hybrid Programming for Near-Term Quantum Computing Systems. , 2018, , .		18
13	Quantum-classical computation of Schwinger model dynamics using quantum computers. Physical Review A, 2018, 98, .	2.5	270
14	Cloud Quantum Computing of an Atomic Nucleus. Physical Review Letters, 2018, 120, 210501.	7.8	269
15	Discrimination of correlated and entangling quantum channels with selective process tomography. Physical Review A, 2016, 94, .	2.5	4
16	A computational workflow for designing silicon donor qubits. Nanotechnology, 2016, 27, 424002.	2.6	3
17	Direct characterization of quantum dynamics with noisy ancilla. Physical Review A, 2015, 92, .	2.5	5
18	Hidden-symmetry decoupling of Majorana bound states in topological superconductors. Physical Review B, 2015, 91, .	3.2	10

#	ARTICLE	IF	CITATIONS
19	Equivalence of topological mirror superconductivity and chiral superconductivity in one dimension. Physical Review B, 2015, 92, .	3.2	3
20	Majorana fermions in chiral topological ferromagnetic nanowires. Physical Review B, 2015, 91, .	3.2	70
21	Magnetic field response and chiral symmetry of time-reversal-invariant topological superconductors. Physical Review B, 2014, 90, .	3.2	44