

# 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	Quantum-classical computation of Schwinger model dynamics using quantum computers. Physical Review A, 2018, 98, .	2.5	270
2	Cloud Quantum Computing of an Atomic Nucleus. Physical Review Letters, 2018, 120, 210501.	7.8	269
3	Majorana fermions in chiral topological ferromagnetic nanowires. Physical Review B, 2015, 91, .	3.2	70
4	Scalar quantum field theories as a benchmark for near-term quantum computers. Physical Review A, 2019, 99, .	2.5	51
5	Magnetic field response and chiral symmetry of time-reversal-invariant topological superconductors. Physical Review B, 2014, 90, .	3.2	44
6	Colossal photon bunching in quasiparticle-mediated nanodiamond cathodoluminescence. Physical Review B, 2018, 97, .	3.2	26
7	Hybrid Programming for Near-Term Quantum Computing Systems. , 2018, , .		18
8	Digital-Analog Quantum Simulations Using the Cross-Resonance Effect. PRX Quantum, 2021, 2, .	9.2	11
9	Hidden-symmetry decoupling of Majorana bound states in topological superconductors. Physical Review B, 2015, 91, .	3.2	10
10	Tensor Network Quantum Virtual Machine for Simulating Quantum Circuits at Exascale. ACM Transactions on Quantum Computing, 2023, 4, 1-21.	4.3	8
11	Benchmarking noise extrapolation with the OpenPulse control framework. Physical Review A, 2020, 101, .	2.5	7
12	Optical vortex manipulation for topological quantum computation. Physical Review B, 2021, 104, .	3.2	6
13	Hamiltonian assignment for open quantum systems. Physical Review Research, 2020, 2, .	3.6	6
14	Direct characterization of quantum dynamics with noisy ancilla. Physical Review A, 2015, 92, .	2.5	5
15	Discrimination of correlated and entangling quantum channels with selective process tomography. Physical Review A, 2016, 94, .	2.5	4
16	Equivalence of topological mirror superconductivity and chiral superconductivity in one dimension. Physical Review B, 2015, 92, .	3.2	3
17	A computational workflow for designing silicon donor qubits. Nanotechnology, 2016, 27, 424002.	2.6	3
18	Robustness of vortex-bound Majorana zero modes against correlated disorder. Physical Review B, 2021, 104, .	3.2	2

#	ARTICLE	IF	CITATIONS
19	Statistical detection of Josephson, Andreev, and single quasiparticle currents in scanning tunneling microscopy. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
20	Multifunctional Superconducting Nanowire Quantum Sensors. <i>Physical Review Applied</i> , 2021, 16, .	3.8	1
21	The hybrid topological longitudinal transmon qubit. <i>Materials for Quantum Technology</i> , 2021, 1, 021001.	3.1	0