

David I Schuster

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2400348/publications.pdf>

Version: 2024-02-01

19
papers

1,222
citations

623734

14
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1655
citing authors

#	ARTICLE	IF	CITATIONS
1	A dissipatively stabilized Mott insulator of photons. <i>Nature</i> , 2019, 566, 51-57.	27.8	213
2	Spin-phonon interactions in silicon carbide addressed by Gaussian acoustics. <i>Nature Physics</i> , 2019, 15, 490-495.	16.7	159
3	Storage of Multiple Coherent Microwave Excitations in an Electron Spin Ensemble. <i>Physical Review Letters</i> , 2010, 105, 140503.	7.8	156
4	Probing the Berry curvature and Fermi arcs of a Weyl circuit. <i>Physical Review B</i> , 2019, 99, .	3.2	115
5	Universal Stabilization of a Parametrically Coupled Qubit. <i>Physical Review Letters</i> , 2017, 119, 150502.	7.8	87
6	Speedup for quantum optimal control from automatic differentiation based on graphics processing units. <i>Physical Review A</i> , 2017, 95, .	2.5	84
7	Experimental Realization of a Protected Superconducting Circuit Derived from the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle \hat{\epsilon} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Qubit. <i>PRX Quantum</i> , 2021, 2, .	9.2	77
8	High-Contrast Qubit Interactions Using Multimode Cavity QED. <i>Physical Review Letters</i> , 2015, 114, 080501.	7.8	55
9	Gradient-based optimal control of open quantum systems using quantum trajectories and automatic differentiation. <i>Physical Review A</i> , 2019, 99, .	2.5	53
10	Moving beyond the Transmon: Noise-Protected Superconducting Quantum Circuits. <i>PRX Quantum</i> , 2021, 2, .	9.2	43
11	Coupling a single electron on superfluid helium to a superconducting resonator. <i>Nature Communications</i> , 2019, 10, 5323.	12.8	35
12	Engineering Dynamical Sweet Spots to Protect Qubits from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Noise. <i>Physical Review Applied</i> , 2021, 15, .	3.8	35
13	Universal gates for protected superconducting qubits using optimal control. <i>Physical Review A</i> , 2020, 101, .	2.5	30
14	Single electrons on solid neon as a solid-state qubit platform. <i>Nature</i> , 2022, 605, 46-50.	27.8	22
15	A tunable high-Q millimeter wave cavity for hybrid circuit and cavity QED experiments. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	14
16	Multimode photon blockade. <i>Nature Physics</i> , 2022, 18, 879-884.	16.7	14
17	Deterministic Grover search with a restricted oracle. <i>Physical Review Research</i> , 2022, 4, .	3.6	12
18	Input-output theory for superconducting and photonic circuits that contain weak retroreflections and other weak pseudocavities. <i>Physical Review A</i> , 2018, 98, .	2.5	9

#	ARTICLE	IF	CITATIONS
19	Universal stabilization of single-qubit states using a tunable coupler. Physical Review A, 2018, 97, .	2.5	8