Mingtang Deng

List of Publications by Year
in descending order

21 papers	1,764 citations	623574 14 h-index	752573 20 g-index
21 all docs	21 docs citations	21 times ranked	1629 citing authors

#	Article	IF	Citations
1	Majorana bound state in a coupled quantum-dot hybrid-nanowire system. Science, 2016, 354, 1557-1562.	6.0	816
2	Nonlocality of Majorana modes in hybrid nanowires. Physical Review B, 2018, 98, .	1.1	173
3	Flux-induced topological superconductivity in full-shell nanowires. Science, 2020, 367, .	6.0	129
4	Selective-Area-Grown Semiconductor-Superconductor Hybrids: A Basis for Topological Networks. Physical Review Letters, 2018, 121, 147701.	2.9	83
5	Parity independence of the zero-bias conductance peak in a nanowire based topological superconductor-quantum dot hybrid device. Scientific Reports, 2014, 4, 7261.	1.6	75
6	Selective area epitaxy of III–V nanostructure arrays and networks: Growth, applications, and future directions. Applied Physics Reviews, 2021, 8, .	5.5	75
7	Effective g Factor of Subgap States in Hybrid Nanowires. Physical Review Letters, 2018, 121, 037703.	2.9	74
8	Current–phase relations of few-mode InAs nanowire Josephson junctions. Nature Physics, 2017, 13, 1177-1181.	6.5	68
9	Engineering hybrid epitaxial InAsSb/Al nanowires for stronger topological protection. Physical Review Materials, 2018, 2, .	0.9	65
10	General-Purpose Quantum Circuit Simulator with Projected Entangled-Pair States and the Quantum Supremacy Frontier. Physical Review Letters, 2019, 123, 190501.	2.9	57
11	Implementing graph-theoretic quantum algorithms on a silicon photonic quantum walk processor. Science Advances, 2021, 7, .	4.7	50
12	Current-phase relations of InAs nanowire Josephson junctions: From interacting to multimode regimes. Physical Review B, 2019, 100, .	1.1	27
13	Variational quantum circuits for quantum state tomography. Physical Review A, 2020, 101, .	1.0	24
14	Formation of long single quantum dots in high quality InSb nanowires grown by molecular beam epitaxy. Nanoscale, 2015, 7, 14822-14828.	2.8	23
15	Remote-controlled quantum computing by quantum entanglement. Optics Letters, 2020, 45, 6298.	1.7	7
16	Reconfigurable multiphoton entangled states based on quantum photonic chips. Optics Express, 2020, 28, 26792.	1.7	6
17	Sample caching Markov chain Monte Carlo approach to boson sampling simulation. New Journal of Physics, 2020, 22, 033022.	1.2	4
18	Quantum algorithm and experimental demonstration for the subset sum problem. Science China Information Sciences, 2022, 65, .	2.7	4

#	Article	IF	Citations
19	Quingo: A Programming Framework for Heterogeneous Quantum-Classical Computing with NISQ Features. ACM Transactions on Quantum Computing, 2021, 2, 1-37.	2.6	3
20	Bright 547-dimensional Hilbert-space entangled resource in 28-pair modes biphoton frequency comb from a reconfigurable silicon microring resonator. Chinese Physics B, 2022, 31, 024206.	0.7	1
21	General quantum Bernoulli factory: framework analysis and experiments. Quantum Science and Technology, 2021, 6, 045025.	2.6	0