

# Mingtang Deng

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Quantum algorithm and experimental demonstration for the subset sum problem. Science China Information Sciences, 2022, 65, .	2.7	4
3	Implementing graph-theoretic quantum algorithms on a silicon photonic quantum walk processor. Science Advances, 2021, 7, .	4.7	50
4	Selective area epitaxy of III-V nanostructure arrays and networks: Growth, applications, and future directions. Applied Physics Reviews, 2021, 8, .	5.5	75
5	General quantum Bernoulli factory: framework analysis and experiments. Quantum Science and Technology, 2021, 6, 045025.	2.6	0
6	Quingo: A Programming Framework for Heterogeneous Quantum-Classical Computing with NISQ Features. ACM Transactions on Quantum Computing, 2021, 2, 1-37.	2.6	3
7	Variational quantum circuits for quantum state tomography. Physical Review A, 2020, 101, .	1.0	24
8	Flux-induced topological superconductivity in full-shell nanowires. Science, 2020, 367, .	6.0	129
9	Sample caching Markov chain Monte Carlo approach to boson sampling simulation. New Journal of Physics, 2020, 22, 033022.	1.2	4
10	Reconfigurable multiphoton entangled states based on quantum photonic chips. Optics Express, 2020, 28, 26792.	1.7	6
11	Remote-controlled quantum computing by quantum entanglement. Optics Letters, 2020, 45, 6298.	1.7	7
12	General-Purpose Quantum Circuit Simulator with Projected Entangled-Pair States and the Quantum Supremacy Frontier. Physical Review Letters, 2019, 123, 190501.	2.9	57
13	Current-phase relations of InAs nanowire Josephson junctions: From interacting to multimode regimes. Physical Review B, 2019, 100, .	1.1	27
14	Selective-Area-Grown Semiconductor-Superconductor Hybrids: A Basis for Topological Networks. Physical Review Letters, 2018, 121, 147701.	2.9	83
15	Effective $\langle \mathbf{m}_i \cdot \mathbf{g}_i \rangle$ Factor of Subgap States in Hybrid Nanowires. Physical Review Letters, 2018, 121, 037703.	2.9	74
16	Nonlocality of Majorana modes in hybrid nanowires. Physical Review B, 2018, 98, .	1.1	173
17	Engineering hybrid epitaxial InAsSb/Al nanowires for stronger topological protection. Physical Review Materials, 2018, 2, .	0.9	65
18	Current-phase relations of few-mode InAs nanowire Josephson junctions. Nature Physics, 2017, 13, 1177-1181.	6.5	68

#	ARTICLE	IF	CITATIONS
19	Majorana bound state in a coupled quantum-dot hybrid-nanowire system. <i>Science</i> , 2016, 354, 1557-1562.	6.0	816
20	Formation of long single quantum dots in high quality InSb nanowires grown by molecular beam epitaxy. <i>Nanoscale</i> , 2015, 7, 14822-14828.	2.8	23
21	Parity independence of the zero-bias conductance peak in a nanowire based topological superconductor-quantum dot hybrid device. <i>Scientific Reports</i> , 2014, 4, 7261.	1.6	75