Yingkai Ouyang

List of Publications by Year
in descending order

		840776	794594
29 papers	436 citations	11 h-index	19 g-index
29 all docs	29 docs citations	29 times ranked	297 citing authors

#	Article	IF	Citations
1	Permutation-invariant quantum codes. Physical Review A, 2014, 90, .	2.5	49
2	Quantifying Quantum Speedups: Improved Classical Simulation From Tighter Magic Monotones. PRX Quantum, 2021, 2, .	9.2	41
3	A quantum approach to homomorphic encryption. Scientific Reports, 2016, 6, 33467.	3.3	35
4	Compilation by stochastic Hamiltonian sparsification. Quantum - the Open Journal for Quantum Science, 0, 4, 235.	0.0	34
5	Quantum homomorphic encryption from quantum codes. Physical Review A, 2018, 98, .	2.5	32
6	Tight Bounds on the Simultaneous Estimation of Incompatible Parameters. Physical Review X, 2021, 11, .	8.9	27
7	Permutation-invariant codes encoding more than one qubit. Physical Review A, 2016, 93, .	2.5	23
8	Permutation-invariant qudit codes from polynomials. Linear Algebra and Its Applications, 2017, 532, 43-59.	0.9	22
9	Permutation-Invariant Constant-Excitation Quantum Codes for Amplitude Damping. IEEE Transactions on Information Theory, 2020, 66, 2921-2933.	2.4	20
10	Concatenated Quantum Codes Can Attain the Quantum Gilbertâ€"Varshamov Bound. IEEE Transactions on Information Theory, 2014, 60, 3117-3122.	2.4	13
11	Causal Limit on Quantum Communication. Physical Review Letters, 2019, 123, 150502.	7.8	13
12	Quantum storage in quantum ferromagnets. Physical Review B, 2021, 103, .	3.2	12
13	Channel covariance, twirling, contraction and some upper bounds on the quantum capacity. Quantum Information and Computation, 2014, 14, 917-936.	0.3	12
14	Initializing a permutation-invariant quantum error-correction code. Physical Review A, 2019, 99, .	2.5	11
15	Computing on quantum shared secrets. Physical Review A, 2017, 96, .	2.5	10
16	Computing spectral bounds of the Heisenberg ferromagnet from geometric considerations. Journal of Mathematical Physics, 2019, 60, .	1.1	10
17	Permutation-invariant quantum coding for quantum deletion channels. , 2021, , .		10
18	Quantum Key Distribution with Nonideal Heterodyne Detection: Composable Security of Discrete-Modulation Continuous-Variable Protocols. PRX Quantum, 2022, 3, .	9.2	10

#	ARTICLE	IF	CITATIONS
19	Practical somewhat-secure quantum somewhat-homomorphic encryption with coherent states. Physical Review A, 2018, 97, .	2.5	9
20	Homomorphic encryption of linear optics quantum computation on almost arbitrary states of light with asymptotically perfect security. Physical Review Research, 2020, 2, .	3.6	8
21	Faster quantum computation with permutations and resonant couplings. Linear Algebra and Its Applications, 2020, 592, 270-286.	0.9	7
22	Avoiding coherent errors with rotated concatenated stabilizer codes. Npj Quantum Information, 2021, 7, .	6.7	7
23	Classical verification of quantum circuits containing few basis changes. Physical Review A, 2018, 97, .	2.5	6
24	Robust Quantum Metrology With Explicit Symmetric States. IEEE Transactions on Information Theory, 2022, 68, 1809-1821.	2.4	6
25	Truncated quantum channel representations for coupled harmonic oscillators. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 205301.	2.1	3
26	Linear programming bounds for quantum amplitude damping codes. , 2020, , .		3
27	The equivalence between correctability of deletions and insertions of separable states in quantum codes. , 2021, , .		2
28	Trade-Offs on Number and Phase Shift Resilience in Bosonic Quantum Codes. IEEE Transactions on Information Theory, 2021, 67, 6644-6652.	2.4	1
29	Linear Programming Bounds for Approximate Quantum Error Correction Over Arbitrary Quantum Channels. IEEE Transactions on Information Theory, 2022, 68, 5234-5247.	2.4	0