Byung-Soo Choi

List of Publications by Year
in descending order

24 papers	164 citations	1307594 7 h-index	1125743 13 g-index
24 all docs	24 docs citations	24 times ranked	194 citing authors

#	Article	IF	Citations
1	Sure Success Partial Search. Quantum Information Processing, 2007, 6, 1-8.	2.2	27
2	A Î“(â̌ n)-depth quantum adder on the 2D NTC quantum computer architecture. ACM Journal on Emerging Technologies in Computing Systems, 2012, 8, 1-22.	2.3	20
3	On the Effect of Quantum Interaction Distance on Quantum Addition Circuits. ACM Journal on Emerging Technologies in Computing Systems, 2011, 7, 1-17.	2.3	18
4	Efficient decomposition methods for controlled-R n using a single ancillary qubit. Scientific Reports, 2018, 8, 5445.	3.3	17
5	Exact quantum algorithm to distinguish Boolean functions of different weights. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 8441-8454.	2.1	13
6	Quantum Partial Search of a Database with Several Target Items. Quantum Information Processing, 2007, 6, 243-254.	2.2	11
7	Dual-code quantum computation model. Quantum Information Processing, 2015, 14, 2775-2818.	2.2	8
8	Interoperability in encoded quantum repeater networks. Physical Review A, 2016, 93, .	2.5	7
9	Integrated Analysis of Performance and Resources in Large-Scale Quantum Computing. Physical Review Applied, 2020, 13, .	3.8	6
10	Quantum algorithm for the asymmetric weight decision problem and its generalization to multiple weights. Quantum Information Processing, 2011, 10, 177-188.	2.2	5
11	Efficient quantum algorithms to construct arbitrary Dicke states. Quantum Information Processing, 2014, 13, 2049-2069.	2.2	5
12	Analysis of physical requirements for simple three-qubit and nine-qubit quantum error correction on quantum-dot and superconductor qubits. Physical Review A, 2017, 95, .	2.5	5
13	Quantum Modular Multiplication. IEEE Access, 2020, 8, 213244-213252.	4.2	5
14	Density matrix simulation of quantum error correction codes for near-term quantum devices. Quantum Science and Technology, 2020, 5, 015002.	5.8	5
15	Asynchronous array multiplier with an asymmetric parallel array structure. , 0, , .		3
16	Performance simulator based on hardware resources constraints for ion trap quantum computer. , 2013, , .		3
17	Optimality proofs of quantum weight decision algorithms. Quantum Information Processing, 2012, 11, 123-136.	2.2	2
18	Cost comparison between code teleportation and stabilizer sequence methods for quantum code conversion. , 2013, , .		2

#	Article	IF	Citations
19	Partial resolution for redundant operation table. Microprocessors and Microsystems, 2008, 32, 79-94.	2.8	1
20	On the construction of stabilizer codes with an arbitrary binary matrix. Quantum Information Processing, 2013, 12, 467-479.	2.2	1
21	Cost effective mixed-type value predictor using distributed classification method. Microprocessors and Microsystems, 2005, 29, 451-462.	2.8	0
22	Hierarchical system mapping for large-scale fault-tolerant quantum computing. Quantum Information Processing, 2021, 20, 1.	2.2	0
23	Frequent Value Cache for Low-Power Asynchronous Dual-Rail Bus. Lecture Notes in Computer Science, 2003, , 520-529.	1.3	0
24	High Performance Microprocessor Design Methods Exploiting Information Locality and Data Redundancy for Lower Area Cost and Power Consumption. Lecture Notes in Computer Science, 2004, , 170-184.	1.3	0