

# Byung-soo Choi

## List of Publications by Year in descending order

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28  
papers

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1032804

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h-index

1031800

13  
g-index

28  
all docs

28  
docs citations

28  
times ranked

275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sure Success Partial Search. Quantum Information Processing, 2007, 6, 1-8.	2.2	27
2	A $\hat{T}(\hat{\alpha}^{\otimes n})$ -depth quantum adder on the 2D NTC quantum computer architecture. ACM Journal on Emerging Technologies in Computing Systems, 2012, 8, 1-22.	2.4	20
3	Efficient decomposition methods for controlled-R <sub>n</sub> using a single ancillary qubit. Scientific Reports, 2018, 8, 5445.	3.4	20
4	On the Effect of Quantum Interaction Distance on Quantum Addition Circuits. ACM Journal on Emerging Technologies in Computing Systems, 2011, 7, 1-17.	2.4	18
5	Magnetization process of the breathing pyrochlore magnet $\text{CuInCrS}_8$ in ultrahigh magnetic fields up to 150 T. Physical Review B, 2020, 101, .	3.3	16
6	Exact quantum algorithm to distinguish Boolean functions of different weights. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 8441-8454.	2.1	13
7	Quantum Partial Search of a Database with Several Target Items. Quantum Information Processing, 2007, 6, 243-254.	2.2	11
8	Quantum Modular Multiplication. IEEE Access, 2020, 8, 213244-213252.	4.4	9
9	Dual-code quantum computation model. Quantum Information Processing, 2015, 14, 2775-2818.	2.2	8
10	Interoperability in encoded quantum repeater networks. Physical Review A, 2016, 93, .	2.5	7
11	Efficient quantum algorithms to construct arbitrary Dicke states. Quantum Information Processing, 2014, 13, 2049-2069.	2.2	6
12	Integrated Analysis of Performance and Resources in Large-Scale Quantum Computing. Physical Review Applied, 2020, 13, .	3.8	6
13	Density matrix simulation of quantum error correction codes for near-term quantum devices. Quantum Science and Technology, 2020, 5, 015002.	5.9	6
14	Quantum algorithm for the asymmetric weight decision problem and its generalization to multiple weights. Quantum Information Processing, 2011, 10, 177-188.	2.2	5
15	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
16	Asynchronous array multiplier with an asymmetric parallel array structure. , 0, , .		3
17	Performance simulator based on hardware resources constraints for ion trap quantum computer. , 2013, , .		3
18	Optimality proofs of quantum weight decision algorithms. Quantum Information Processing, 2012, 11, 123-136.	2.2	2

#	ARTICLE	IF	CITATIONS
19	Cost comparison between code teleportation and stabilizer sequence methods for quantum code conversion. , 2013, , .		2
20	Partial resolution for redundant operation table. Microprocessors and Microsystems, 2008, 32, 79-94.	3.3	1
21	On the construction of stabilizer codes with an arbitrary binary matrix. Quantum Information Processing, 2013, 12, 467-479.	2.2	1
22	Cost effective mixed-type value predictor using distributed classification method. Microprocessors and Microsystems, 2005, 29, 451-462.	3.3	0
23	Hierarchical system mapping for large-scale fault-tolerant quantum computing. Quantum Information Processing, 2021, 20, 1.	2.2	0
24	Frequent Value Cache for Low-Power Asynchronous Dual-Rail Bus. Lecture Notes in Computer Science, 2003, , 520-529.	2.0	0
25	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.	2.0	0
26	A Software Platform for Programmable Linear Optical Quantum Computer. IEEE Access, 2023, 11, 112682-112692.	4.4	0
27	Quantum circuit mapping for universal and scalable computing in MZI-based integrated photonics. Optics Express, 2024, 32, 12852.	3.3	0
28	Full Software Control on MZI-based Photonic Integrated Circuit. IEEE Access, 2024, , 1-1.	4.4	0