Akihito Soeda

List of Publications by Year
in descending order

23	203	1163117 8	1199594 12
papers	citations	h-index	g-index

23	23	23	172
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reversing Unknown Quantum Transformations: Universal Quantum Circuit for Inverting General Unitary Operations. Physical Review Letters, 2019, 123, 210502.	7.8	39
2	Probabilistic exact universal quantum circuits for transforming unitary operations. Physical Review A, 2019, 100, .	2.5	17
3	A Coding Theorem for Bipartite Unitaries in Distributed Quantum Computation. IEEE Transactions on Information Theory, 2017, 63, 5372-5403.	2.4	15
4	Complex conjugation supermap of unitary quantum maps and its universal implementation protocol. Physical Review Research, 2019, 1, .	3.6	15
5	Markovianizing Cost of Tripartite Quantum States. IEEE Transactions on Information Theory, 2017, 63, 1280-1298.	2.4	14
6	Complexity of Causal Order Structure in Distributed Quantum Information Processing: More Rounds of Classical Communication Reduce Entanglement Cost. Physical Review Letters, 2019, 122, 190502.	7.8	14
7	Consequences of preserving reversibility in quantum superchannels. Quantum - the Open Journal for Quantum Science, 0, 5, 441.	0.0	14
8	Quantum computation over the butterfly network. Physical Review A, 2011, 84, .	2.5	12
9	Quantum Algorithm for Universal Implementation of the Projective Measurement of Energy. Physical Review Letters, 2015, 114, 190501.	7.8	12
10	Success-or-Draw: A Strategy Allowing Repeat-Until-Success in Quantum Computation. Physical Review Letters, 2021, 126, 150504.	7.8	10
11	Graph-associated entanglement cost of a multipartite state in exact and finite-block-length approximate constructions. Physical Review A, 2017, 96, .	2.5	9
12	Projective measurement of energy on an ensemble of qubits with unknown frequencies. Physical Review A, 2017, 95, .	2.5	7
13	Implementing positive maps with multiple copies of an input state. Physical Review A, 2019, 99, .	2.5	6
14	The Cost of Randomness for Converting a Tripartite Quantum State to be Approximately Recoverable. IEEE Transactions on Information Theory, 2017, 63, 5360-5371.	2.4	5
15	A coding theorem for bipartite unitaries in distributed quantum computation. , 2015, , .		3
16	Robust controllability of two-qubit Hamiltonian dynamics. Physical Review A, 2019, 100, .	2.5	3
17	Optimal quantum discrimination of single-qubit unitary gates between two candidates. Physical Review A, 2021, 104, .	2.5	3
18	KurzyÅ„skietÂal.Reply. Physical Review Letters, 2014, 113, 138902.	7.8	2

#	Article	IF	Citations
19	Markovianizing cost of tripartite quantum states. , 2015, , .		2
20	Universal construction of controlled-unitary gates using dynamical decoupling and the quantum Zeno effect. , 2014, , .		1
21	Comparing the globalness of bipartite unitary operations: delocalisation power, entanglement cost and entangling power. Mathematical Structures in Computer Science, 2013, 23, 454-470.	0.6	0
22	Implementing controlled-unitary operations over the butterfly network. , 2014, , .		0
23	Logically reversible measurements: Construction and application. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3460-3464.	2.1	0