

Takuya Ikuta

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

305
citations

840776

11
h-index

1058476

14
g-index

24
all docs

24
docs citations

24
times ranked

244
citing authors

#	ARTICLE	IF	CITATIONS
1	100,000-spin coherent Ising machine. Science Advances, 2021, 7, eabh0952.	10.3	101
2	Four-dimensional entanglement distribution over 100km. Scientific Reports, 2018, 8, 817.	3.3	30
3	Collective and synchronous dynamics of photonic spiking neurons. Nature Communications, 2021, 12, 2325.	12.8	25
4	Intensity modulation and direct detection quantum key distribution based on quantum noise. New Journal of Physics, 2016, 18, 013018.	2.9	22
5	Enhanced violation of the Collins-Gisin-Linden-Massar-Popescu inequality with optimized time-bin-entangled ququarts. Physical Review A, 2016, 93, .	2.5	19
6	Simulating Ising Spins in External Magnetic Fields with a Network of Degenerate Optical Parametric Oscillators. Physical Review Applied, 2020, 13, .	3.8	18
7	Implementation of quantum state tomography for time-bin qudits. New Journal of Physics, 2017, 19, 013039.	2.9	17
8	Large-scale Coherent Ising Machine. Journal of the Physical Society of Japan, 2019, 88, 061014.	1.6	17
9	Quantum Process Tomography of a Controlled-Phase Gate for Time-Bin Qubits. Physical Review Applied, 2020, 13, .	3.8	15
10	Entanglement generation using a controlled-phase gate for time-bin qubits. Applied Physics Express, 2018, 11, 092801.	2.4	13
11	A simple low-latency real-time certifiable quantum random number generator. Nature Communications, 2021, 12, 1056.	12.8	13
12	Potts model solver based on hybrid physical and digital architecture. Communications Physics, 2022, 5, .	5.3	7
13	Electro-optic modulators for photonic quantum information processing. , 2019, , .		4
14	Nonlinearity Mitigation of PDM-16QAM Signals Using Multiple CSI-OPCs in Ultra-Long-Haul Transmission without Excess Penalty. IEICE Transactions on Communications, 2020, E103.B, 1226-1232.	0.7	2
15	Long-Term Stable Operation of Coherent Ising Machine for Cloud Service. , 2018, , .		1
16	Continuous and long-term stabilization of degenerate optical parametric oscillators for large-scale optical hybrid computers. Optics Express, 2020, 28, 38553.	3.4	1
17	Long-Distance Quantum Teleportation and High-Dimensional Entanglement Distribution Over Optical Fiber. , 2018, , .		0
18	Experimental Quantum Process Tomography of Controlled-phase Gate for Time-bin Qubits. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Nonlinearity mitigation of PDM-16QAM signal using multiple CSI-OPCs in ultra-long haul transmission without excess penalty. , 2019, , .		0
20	A real-time low-latency certifiable QRNG. , 2021, , .		0
21	Distribution of four-dimensional time-bin entangled state over 100 km of fiber. , 2017, , .		0
22	Demonstration of controlled-phase gate for time-bin qubits. , 2018, , .		0
23	Simulating One- and Two-Dimensional Ising Models in a Magnetic Field Using a Coherent Ising Machine. , 2020, , .		0
24	Photonic spiking neuron with coupled degenerate optical parametric oscillators. , 2021, , .		0