Bikash K Behera

List of Publications by Year
in descending order

35 papers	**497** citations	687363 **13** h-index	713466 **21** g-index
36 all docs	**36** docs citations	**36** times ranked	**248** citing authors

#	Article	IF	Citations
1	Experimental realization of quantum cheque using a five-qubit quantum computer. Quantum Information Processing, 2017, 16, 1.	2.2	52
2	Demonstration of entanglement purification and swapping protocol to design quantum repeater in IBM quantum computer. Quantum Information Processing, 2019, 18, 1.	2.2	49
3	Experimental realization of quantum teleportation of an arbitrary two-qubit state using a four-qubit cluster state. Quantum Information Processing, 2020, 19, 1.	2.2	39
4	Designing quantum router in IBM quantum computer. Quantum Information Processing, 2019, 18, 1.	2.2	36
5	Experimental demonstration of non-local controlled-unitary quantum gates using a five-qubit quantum computer. Quantum Information Processing, 2018, 17, 1.	2.2	33
6	Experimental realization of controlled quantum teleportation of arbitrary qubit states via cluster states. Scientific Reports, 2020, 10, 13608.	3.3	33
7	Automated error correction in IBM quantum computer and explicit generalization. Quantum Information Processing, 2018, 17, 1.	2.2	30
8	Generalization and demonstration of an entanglement-based Deutsch–Jozsa-like algorithm using a 5-qubit quantum computer. Quantum Information Processing, 2018, 17, 1.	2.2	29
9	Nondestructive discrimination of a new family of highly entangled states in IBM quantum computer. Quantum Information Processing, 2018, 17, 1.	2.2	25
10	Experimental realization of quantum teleportation using coined quantum walks. Quantum Information Processing, 2020, 19, 1.	2.2	22
11	Experimental demonstration of the violations of Mermin's and Svetlichny's inequalities for W and GHZ states. Quantum Information Processing, 2019, 18, 1.	2.2	21
12	Implementation of quantum secret sharing and quantum binary voting protocol in the IBM quantum computer. Quantum Information Processing, 2020, 19, 1.	2.2	18
13	Demonstration of the no-hiding theorem on the 5-Qubit IBM quantum computer in a category-theoretic framework. Quantum Information Processing, 2019, 18, 1.	2.2	15
14	Studying the effect of lockdown using epidemiological modelling of COVID-19 and a quantum computational approach using the Ising spin interaction. Scientific Reports, 2020, 10, 21741.	3.3	14
15	Quantum robots can fly; play games: an IBM quantum experience. Quantum Information Processing, 2019, 18, 1.	2.2	13
16	A new scheme of quantum teleportation using highly entangled brown et al. state: an IBM quantum experience. Quantum Information Processing, 2020, 19, 1.	2.2	10
17	Deterministic hierarchical remote state preparation of a two‐qubit entangled state using Brown *et al.* state in a noisy environment. IET Quantum Communication, 2020, 1, 49-54.	3.8	10
18	Demonstration of a measurement-based adaptation protocol with quantum reinforcement learning on the IBM Q experience platform. Quantum Information Processing, 2020, 19, 1.	2.2	7

#	Article	IF	Citations
19	Solving Sudoku game using a hybrid classical-quantum algorithm. Europhysics Letters, 2019, 128, 40007.	2.0	6
20	Experimental realization of three quantum key distribution protocols. Quantum Information Processing, 2020, 19, 1.	2.2	6
21	A simulational model for witnessing quantum effects of gravity using IBM quantum computer. Quantum Information Processing, 2020, 19, 1.	2.2	6
22	Explicit demonstration of initial state construction in artificial neural networks using NetKet and IBM Q experience platform. Quantum Information Processing, 2020, 19, 1.	2.2	3
23	Solving diner's dilemma game, circuit implementation and verification on the IBM quantum simulator. Quantum Information Processing, 2020, 19, 1.	2.2	3
24	Circuit centric quantum architecture design. IET Quantum Communication, 2021, 2, 14-25.	3.8	3
25	Solving Linear Systems of Equations by Using the Concept of Grover's Search Algorithm: an IBM Quantum Experience. International Journal of Theoretical Physics, 2021, 60, 1980-1988.	1.2	3
26	Automation of quantum Braitenberg vehicles using finite automata: Moore machines. Quantum Information Processing, 2020, 19, 1.	2.2	2
27	Quantum simulation of discretized harmonic oscillator. Quantum Studies: Mathematics and Foundations, 2021, 8, 375-390.	0.9	2
28	Effect of Mechanical Constraints on Thermo-Mechanical Behaviour of Laser-Welded Dissimilar Joints. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 107-119.	0.6	2
29	Demonstration of minisuperspace quantum cosmology using quantum computational algorithms on IBM quantum computer. Quantum Information Processing, 2021, 20, 1.	2.2	1
30	Influence of Squeeze Time on Fracture Mode of SS304 Spot Weldments. Lecture Notes in Mechanical Engineering, 2022, , 305-313.	0.4	1
31	Demonstration of quantum Darwinism on quantum computer. Quantum Information Processing, 2022, 21, 1.	2.2	1
32	Simulation model for complexity in black holes and demonstration of power of one clean qubit using IBM QX. Quantum Studies: Mathematics and Foundations, 2021, 8, 167-178.	0.9	0
33	Critical Assessment of Metallurgical and Mechanical Characteristics of Pulse Laser Welded $\alpha+\beta$ Phase Ti-Alloy. Springer Proceedings in Materials, 2021, , 233-247.	0.3	0
34	Effect of Pulsation on Temperature Distribution of Laser-Welded Dissimilar Joint of Thin Sheet. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 165-178.	0.6	0
35	Observation of a discrete time crystal on a digital quantum simulator. Quantum Studies: Mathematics and Foundations, 0, , 1.	0.9	0