## Pedram Roushan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30	5,153	<b>21</b>	<b>31</b>
papers	citations	h-index	g-index
31	7,461 ext. citations	17.9	4.47
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
30	Realizing topologically ordered states on a quantum processor. <i>Science</i> , <b>2021</b> , 374, 1237-1241	33.3	21
29	Time-Crystalline Eigenstate Order on a Quantum Processor. <i>Nature</i> , <b>2021</b> ,	50.4	8
28	Information scrambling in quantum circuits. <i>Science</i> , <b>2021</b> , eabg5029	33.3	13
27	Accurately computing the electronic properties of a quantum ring. <i>Nature</i> , <b>2021</b> , 594, 508-512	50.4	4
26	Photonic materials in circuit quantum electrodynamics. <i>Nature Physics</i> , <b>2020</b> , 16, 268-279	16.2	46
25	Entanglement and complexity of interacting qubits subject to asymmetric noise. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	1
24	Creating and Manipulating a Laughlin-Type 日1/3 Fractional Quantum Hall State on a Quantum Computer with Linear Depth Circuits. <i>PRX Quantum</i> , <b>2020</b> , 1,	6.1	4
23	Demonstrating a Continuous Set of Two-Qubit Gates for Near-Term Quantum Algorithms. <i>Physical Review Letters</i> , <b>2020</b> , 125, 120504	7.4	59
22	High speed flux sampling for tunable superconducting qubits with an embedded cryogenic transducer. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 015012	3.1	10
21	Diabatic Gates for Frequency-Tunable Superconducting Qubits. <i>Physical Review Letters</i> , <b>2019</b> , 123, 2105	5 <b>0</b> ⁄14	38
20	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , <b>2019</b> , 574, 505-510	50.4	1760
19	A blueprint for demonstrating quantum supremacy with superconducting qubits. <i>Science</i> , <b>2018</b> , 360, 195-199	33.3	205
18	Spectroscopic signatures of localization with interacting photons in superconducting qubits. <i>Science</i> , <b>2017</b> , 358, 1175-1179	33.3	184
17	Demonstration of gate control of spin splitting in a high-mobility InAs/AlSb two-dimensional electron gas. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	17
16	Preserving entanglement during weak measurement demonstrated with a violation of the Bell[leggett[Garg inequality. <i>Npj Quantum Information</i> , <b>2016</b> , 2,	8.6	30
15	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , <b>2016</b> , 12, 1037-104	4116.2	154
14	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , <b>2015</b> , 519, 66-9	50.4	542

## LIST OF PUBLICATIONS

	13	Tunable coupler for superconducting Xmon qubits: Perturbative nonlinear model. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	38
	12	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , <b>2015</b> , 3,	4.3	39
	11	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , <b>2014</b> , 508, 500-3	50.4	961
:	10	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , <b>2014</b> , 515, 241-4	50.4	120
	9	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , <b>2014</b> , 5, 5184	17.4	27
;	8	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , <b>2014</b> , 112, 1905	5 <del>94</del> 4	200
	7	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , <b>2014</b> , 112, 240504	7.4	118
,	6	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	20
	5	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	70
,	4	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , <b>2014</b> , 113, 220502	7.4	279
	3	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 062601	3.4	68
	2	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 052602	3.4	60
	1	Design and characterization of a lumped element single-ended superconducting microwave parametric amplifier with on-chip flux bias line. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 122602	3.4	57