

Johannes B Majer

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

11,843
citations

159358

30
h-index

288905

40
g-index

43
all docs

43
docs citations

43
times ranked

6230
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics. <i>Nature</i> , 2004, 431, 162-167.	13.7	3,195
2	Charge-insensitive qubit design derived from the Cooper pair box. <i>Physical Review A</i> , 2007, 76, .	1.0	2,184
3	Coupling superconducting qubits via a cavity bus. <i>Nature</i> , 2007, 449, 443-447.	13.7	1,109
4	Demonstration of two-qubit algorithms with a superconducting quantum processor. <i>Nature</i> , 2009, 460, 240-244.	13.7	923
5	Resolving photon number states in a superconducting circuit. <i>Nature</i> , 2007, 445, 515-518.	13.7	685
6	Approaching Unit Visibility for Control of a Superconducting Qubit with Dispersive Readout. <i>Physical Review Letters</i> , 2005, 95, 060501.	2.9	456
7	Suppressing charge noise decoherence in superconducting charge qubits. <i>Physical Review B</i> , 2008, 77, .	1.1	415
8	Generating single microwave photons in a circuit. <i>Nature</i> , 2007, 449, 328-331.	13.7	378
9	ac Stark Shift and Dephasing of a Superconducting Qubit Strongly Coupled to a Cavity Field. <i>Physical Review Letters</i> , 2005, 94, 123602.	2.9	351
10	Qubit-photon interactions in a cavity: Measurement-induced dephasing and number splitting. <i>Physical Review A</i> , 2006, 74, .	1.0	281
11	Cavity QED with Magnetically Coupled Collective Spin States. <i>Physical Review Letters</i> , 2011, 107, 060502.	2.9	275
12	Strong Magnetic Coupling of an Ultracold Gas to a Superconducting Waveguide Cavity. <i>Physical Review Letters</i> , 2009, 103, 043603.	2.9	212
13	Fabrication and Characterization of Superconducting Circuit QED Devices for Quantum Computation. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 860-863.	1.1	142
14	Reversible state transfer between superconducting qubits and atomic ensembles. <i>Physical Review A</i> , 2009, 79, .	1.0	128
15	Protecting a spin ensemble against decoherence in the strong-coupling regime of cavity QED. <i>Nature Physics</i> , 2014, 10, 720-724.	6.5	118
16	Superradiant emission from colour centres in diamond. <i>Nature Physics</i> , 2018, 14, 1168-1172.	6.5	106
17	Implementation of the Dicke Lattice Model in Hybrid Quantum System Arrays. <i>Physical Review Letters</i> , 2014, 113, 023603.	2.9	89
18	A scalable architecture for quantum computation with molecular nanomagnets. <i>Dalton Transactions</i> , 2016, 45, 16682-16693.	1.6	79

#	ARTICLE	IF	CITATIONS
19	Strong magnetic coupling of an inhomogeneous nitrogen-vacancy ensemble to a cavity. Physical Review A, 2012, 85, .	1.0	63
20	Simple phase bias for superconducting circuits. Applied Physics Letters, 2002, 80, 3638-3640.	1.5	61
21	Cavity QED with an ultracold ensemble on a chip: Prospects for strong magnetic coupling at finite temperatures. Physical Review A, 2010, 82, .	1.0	58
22	Smooth Optimal Quantum Control for Robust Solid-State Spin Magnetometry. Physical Review Letters, 2015, 115, 190801.	2.9	57
23	Coherent Coupling of Remote Spin Ensembles via a Cavity Bus. Physical Review Letters, 2017, 118, 140502.	2.9	53
24	Solid-state electron spin lifetime limited by phononic vacuum modes. Nature Materials, 2018, 17, 313-317.	13.3	53
25	Spectral hole burning and its application in microwave photonics. Nature Photonics, 2017, 11, 36-39.	15.6	43
26	Quantum Ratchets with Few Bands below the Barrier. Physical Review Letters, 2002, 89, 146801.	2.9	39
27	Enhanced Molecular Spin-Photon Coupling at Superconducting Nanoconstrictions. ACS Nano, 2020, 14, 8707-8715.	7.3	37
28	Non-Markovian dynamics of a single-mode cavity strongly coupled to an inhomogeneously broadened spin ensemble. Physical Review A, 2014, 90, .	1.0	32
29	Nanoscale constrictions in superconducting coplanar waveguide resonators. Applied Physics Letters, 2014, 105, .	1.5	31
30	Ultralong relaxation times in bistable hybrid quantum systems. Science Advances, 2017, 3, e1701626.	4.7	31
31	Electrical transport properties of single-crystal Al nanowires. Nanotechnology, 2016, 27, 385704.	1.3	28
32	Collective strong coupling with homogeneous Rabi frequencies using a 3D lumped element microwave resonator. Applied Physics Letters, 2016, 109, 033508.	1.5	27
33	Magnetic conveyor belt transport of ultracold atoms to a superconducting atomchip. Applied Physics B: Lasers and Optics, 2014, 116, 1017-1021.	1.1	24
34	Controlling quantum information processing in hybrid systems on chips. Quantum Information Processing, 2011, 10, 1037-1060.	1.0	23
35	Optimizing inhomogeneous spin ensembles for quantum memory. Physical Review A, 2012, 86, .	1.0	18
36	<i>Ab initio</i> calculation of the spin lattice relaxation time T_1 for nitrogen-vacancy centers in diamond. Physical Review B, 2018, 98, .		

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37	Dispersive readout of room-temperature ensemble spin sensors. Quantum Science and Technology, 2021, 6, 03LT01.	2.6	9
38	Electron beam driven alkali metal atom source for loading a magneto-optical trap in a cryogenic environment. Applied Physics B: Lasers and Optics, 2011, 102, 819-823.	1.1	3
39	Quantum Information Processing with Superconducting Qubits and Cavities. , 2007, , .		2
40	Backaction Effects of a SSET Measuring a Qubit Spectroscopy and Ground State Measurement. IEEE Transactions on Applied Superconductivity, 2005, 15, 880-883.	1.1	1
41	Perspective on witnessing entanglement in hybrid quantum systems. Applied Physics Letters, 2021, 119, 110501.	1.5	0