Johannes B Majer

List of Publications by Year
in descending order

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41 papers	11,843 citations	159585 30 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	6230 citing authors

#	Article	IF	Citations
1	Dispersive readout of room-temperature ensemble spin sensors. Quantum Science and Technology, 2021, 6, 03LT01.	5.8	9
2	Perspective on witnessing entanglement in hybrid quantum systems. Applied Physics Letters, 2021, 119, 110501.	3.3	0
3	Enhanced Molecular Spin-Photon Coupling at Superconducting Nanoconstrictions. ACS Nano, 2020, 14, 8707-8715.	14.6	37
4	Solid-state electron spin lifetime limited by phononic vacuum modes. Nature Materials, 2018, 17, 313-317.	27.5	53
5	Ab initio calculation of the spin lattice relaxation time <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mn>1</mml:mn></mml:msub></mml for nitrogen-vacancy centers in diamond. Physical Review B, 2018, 98, .	3.7	12
6	Superradiant emission from colour centres in diamond. Nature Physics, 2018, 14, 1168-1172.	16.7	106
7	Ultralong relaxation times in bistable hybrid quantum systems. Science Advances, 2017, 3, e1701626.	10.3	31
8	Coherent Coupling of Remote Spin Ensembles via a Cavity Bus. Physical Review Letters, 2017, 118, 140502.	7.8	53
9	Spectral hole burning and its application in microwave photonics. Nature Photonics, 2017, 11, 36-39.	31.4	43
10	Collective strong coupling with homogeneous Rabi frequencies using a 3D lumped element microwave resonator. Applied Physics Letters, 2016, 109, 033508.	3.3	27
11	A scalable architecture for quantum computation with molecular nanomagnets. Dalton Transactions, 2016, 45, 16682-16693.	3.3	79
12	Electrical transport properties of single-crystal Al nanowires. Nanotechnology, 2016, 27, 385704.	2.6	28
13	Smooth Optimal Quantum Control for Robust Solid-State Spin Magnetometry. Physical Review Letters, 2015, 115, 190801.	7.8	57
14	Non-Markovian dynamics of a single-mode cavity strongly coupled to an inhomogeneously broadened spin ensemble. Physical Review A, 2014, 90, .	2.5	32
15	Nanoscale constrictions in superconducting coplanar waveguide resonators. Applied Physics Letters, 2014, 105, .	3.3	31
16	Protecting a spin ensemble against decoherence in the strong-coupling regime of cavity QED. Nature Physics, 2014, 10, 720-724.	16.7	118
17	Magnetic conveyor belt transport of ultracold atoms to a superconducting atomchip. Applied Physics B: Lasers and Optics, 2014, 116, 1017-1021.	2.2	24
18	Implementation of the Dicke Lattice Model in Hybrid Quantum System Arrays. Physical Review Letters, 2014, 113, 023603.	7.8	89

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19	Optimizing inhomogeneous spin ensembles for quantum memory. Physical Review A, 2012, 86, .	2.5	18
20	Strong magnetic coupling of an inhomogeneous nitrogen-vacancy ensemble to a cavity. Physical Review A, 2012, 85, .	2.5	63
21	Cavity QED with Magnetically Coupled Collective Spin States. Physical Review Letters, 2011, 107, 060502.	7.8	275
22	Controlling quantum information processing in hybrid systems on chips. Quantum Information Processing, 2011, 10, 1037-1060.	2.2	23
23	Electron beam driven alkali metal atom source for loading aÂmagneto-optical trap in a cryogenic environment. Applied Physics B: Lasers and Optics, 2011, 102, 819-823.	2.2	3
24	Cavity QED with an ultracold ensemble on a chip: Prospects for strong magnetic coupling at finite temperatures. Physical Review A, 2010, 82, .	2.5	58
25	Strong Magnetic Coupling of an Ultracold Gas to a Superconducting Waveguide Cavity. Physical Review Letters, 2009, 103, 043603.	7.8	212
26	Demonstration of two-qubit algorithms with a superconducting quantum processor. Nature, 2009, 460, 240-244.	27.8	923
27	Reversible state transfer between superconducting qubits and atomic ensembles. Physical Review A, 2009, 79, .	2.5	128
28	Suppressing charge noise decoherence in superconducting charge qubits. Physical Review B, 2008, 77, .	3.2	415
29	Quantum Information Processing with Superconducting Qubits and Cavities. , 2007, , .		2
30	Charge-insensitive qubit design derived from the Cooper pair box. Physical Review A, 2007, 76, .	2.5	2,184
31	Resolving photon number states in a superconducting circuit. Nature, 2007, 445, 515-518.	27.8	685
32	Generating single microwave photons in a circuit. Nature, 2007, 449, 328-331.	27.8	378
33	Coupling superconducting qubits via a cavity bus. Nature, 2007, 449, 443-447.	27.8	1,109
34	Qubit-photon interactions in a cavity: Measurement-induced dephasing and number splitting. Physical Review A, 2006, 74, .	2.5	281
35	ac Stark Shift and Dephasing of a Superconducting Qubit Strongly Coupled to a Cavity Field. Physical Review Letters, 2005, 94, 123602.	7.8	351
36	Backaction Effects of a SSET Measuring a Qubit Spectroscopy and Ground State Measurement. IEEE Transactions on Applied Superconductivity, 2005, 15, 880-883.	1.7	1

#	Article	IF	Citations
37	Approaching Unit Visibility for Control of a Superconducting Qubit with Dispersive Readout. Physical Review Letters, 2005, 95, 060501.	7.8	456
38	Fabrication and Characterization of Superconducting Circuit QED Devices for Quantum Computation. IEEE Transactions on Applied Superconductivity, 2005, 15, 860-863.	1.7	142
39	Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics. Nature, 2004, 431, 162-167.	27.8	3,195
40	Quantum Ratchets with Few Bands below the Barrier. Physical Review Letters, 2002, 89, 146801.	7.8	39
41	Simple phase bias for superconducting circuits. Applied Physics Letters, 2002, 80, 3638-3640.	3.3	61