

# Johannes B Majer

## 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.

40  
papers

9,574  
citations

26  
h-index

43  
g-index

43  
ext. papers

10,920  
ext. citations

11.9  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
40	Dispersive readout of room-temperature ensemble spin sensors. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 03LT01	5.5	2
39	Perspective on witnessing entanglement in hybrid quantum systems. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 110501	3.4	
38	Enhanced Molecular Spin-Photon Coupling at Superconducting Nanoconstrictions. <i>ACS Nano</i> , <b>2020</b> , 14, 8707-8715	16.7	14
37	Solid-state electron spin lifetime limited by phononic vacuum modes. <i>Nature Materials</i> , <b>2018</b> , 17, 313-317	17	36
36	Ab initio calculation of the spin lattice relaxation time T1 for nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	7
35	Superradiant emission from colour centres in diamond. <i>Nature Physics</i> , <b>2018</b> , 14, 1168-1172	16.2	55
34	Ultralong relaxation times in bistable hybrid quantum systems. <i>Science Advances</i> , <b>2017</b> , 3, e1701626	14.3	25
33	Coherent Coupling of Remote Spin Ensembles via a Cavity Bus. <i>Physical Review Letters</i> , <b>2017</b> , 118, 140502	14	31
32	Spectral hole burning and its application in microwave photonics. <i>Nature Photonics</i> , <b>2017</b> , 11, 36-39	33.9	30
31	A scalable architecture for quantum computation with molecular nanomagnets. <i>Dalton Transactions</i> , <b>2016</b> , 45, 16682-16693	4.3	62
30	Electrical transport properties of single-crystal Al nanowires. <i>Nanotechnology</i> , <b>2016</b> , 27, 385704	3.4	23
29	Collective strong coupling with homogeneous Rabi frequencies using a 3D lumped element microwave resonator. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 033508	3.4	18
28	Smooth Optimal Quantum Control for Robust Solid-State Spin Magnetometry. <i>Physical Review Letters</i> , <b>2015</b> , 115, 190801	7.4	41
27	Non-Markovian dynamics of a single-mode cavity strongly coupled to an inhomogeneously broadened spin ensemble. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	26
26	Nanoscale constrictions in superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 162601	3.4	21
25	Protecting a spin ensemble against decoherence in the strong-coupling regime of cavity QED. <i>Nature Physics</i> , <b>2014</b> , 10, 720-724	16.2	88
24	Magnetic conveyor belt transport of ultracold atoms to a superconducting atomchip. <i>Applied Physics B: Lasers and Optics</i> , <b>2014</b> , 116, 1017-1021	1.9	18

23	Implementation of the Dicke lattice model in hybrid quantum system arrays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 023603	7.4	68
22	Optimizing inhomogeneous spin ensembles for quantum memory. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	17
21	Strong magnetic coupling of an inhomogeneous nitrogen-vacancy ensemble to a cavity. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	57
20	Controlling quantum information processing in hybrid systems on chips. <i>Quantum Information Processing</i> , <b>2011</b> , 10, 1037-1060	1.6	21
19	Electron beam driven alkali metal atom source for loading a magneto-optical trap in a cryogenic environment. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 102, 819-823	1.9	3
18	Cavity QED with magnetically coupled collective spin states. <i>Physical Review Letters</i> , <b>2011</b> , 107, 060502	7.4	226
17	Cavity QED with an ultracold ensemble on a chip: Prospects for strong magnetic coupling at finite temperatures. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	52
16	Strong magnetic coupling of an ultracold gas to a superconducting waveguide cavity. <i>Physical Review Letters</i> , <b>2009</b> , 103, 043603	7.4	180
15	Demonstration of two-qubit algorithms with a superconducting quantum processor. <i>Nature</i> , <b>2009</b> , 460, 240-4	50.4	773
14	Reversible state transfer between superconducting qubits and atomic ensembles. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	114
13	Suppressing charge noise decoherence in superconducting charge qubits. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	347
12	Charge-insensitive qubit design derived from the Cooper pair box. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	1530
11	Resolving photon number states in a superconducting circuit. <i>Nature</i> , <b>2007</b> , 445, 515-8	50.4	571
10	Generating single microwave photons in a circuit. <i>Nature</i> , <b>2007</b> , 449, 328-31	50.4	321
9	Coupling superconducting qubits via a cavity bus. <i>Nature</i> , <b>2007</b> , 449, 443-7	50.4	940
8	Qubit-photon interactions in a cavity: Measurement-induced dephasing and number splitting. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	207
7	Backaction effects of a SSET measuring a qubit spectroscopy and ground State measurement. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 880-883	1.8	1
6	Approaching unit visibility for control of a superconducting qubit with dispersive readout. <i>Physical Review Letters</i> , <b>2005</b> , 95, 060501	7.4	386

5	Fabrication and characterization of superconducting circuit QED devices for quantum computation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 860-863	1.8	125
4	ac Stark shift and dephasing of a superconducting qubit strongly coupled to a cavity field. <i>Physical Review Letters</i> , <b>2005</b> , 94, 123602	7.4	287
3	Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics. <i>Nature</i> , <b>2004</b> , 431, 162-7	50.4	2755
2	Quantum ratchets with few bands below the barrier. <i>Physical Review Letters</i> , <b>2002</b> , 89, 146801	7.4	36
1	Simple phase bias for superconducting circuits. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3638-3640	3.4	55