

Durga B Rao Dasari

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,208
citations

304602

22
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377752

34
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all docs

44
docs citations

44
times ranked

1397
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct control of high magnetic fields for cold atom experiments based on NV centers. <i>New Journal of Physics</i> , 2021, 23, 023037.	1.2	2
2	Quantum Sensing and Control of Spin-State Dynamics in the Radical-Pair Mechanism. <i>Physical Review Applied</i> , 2021, 15, .	1.5	6
3	Narrow inhomogeneous distribution of spin-active emitters in silicon carbide. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	13
4	Heterodyne sensing of microwaves with a quantum sensor. <i>Nature Communications</i> , 2021, 12, 2737.	5.8	38
5	Single-spin resonance in a van der Waals embedded paramagnetic defect. <i>Nature Materials</i> , 2021, 20, 1079-1084.	13.3	95
6	Cyclic cooling of quantum systems at the saturation limit. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	9
7	Quantum Fourier transform for nanoscale quantum sensing. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	14
8	Spin-Phonon Interfaces in Coupled Nanomechanical Cantilevers. <i>Nano Letters</i> , 2020, 20, 463-469.	4.5	12
9	Readout and control of an endofullerene electronic spin. <i>Nature Communications</i> , 2020, 11, 6405.	5.8	14
10	Spin-controlled generation of indistinguishable and distinguishable photons from silicon vacancy centres in silicon carbide. <i>Nature Communications</i> , 2020, 11, 2516.	5.8	56
11	A reinforcement learning approach for quantum state engineering. <i>Quantum Machine Intelligence</i> , 2020, 2, 1.	2.7	28
12	Observation of nonclassical measurement statistics induced by a coherent spin environment. <i>Physical Review A</i> , 2019, 100, .	1.0	6
13	High-resolution spectroscopy of single nuclear spins via sequential weak measurements. <i>Nature Communications</i> , 2019, 10, 594.	5.8	60
14	Quantum Properties of Dichroic Silicon Vacancies in Silicon Carbide. <i>Physical Review Applied</i> , 2018, 9, .	1.5	90
15	Dissipative entanglement of solid-state spins in diamond. <i>Physical Review A</i> , 2017, 95, .	1.0	14
16	A molecular quantum spin network controlled by a single qubit. <i>Science Advances</i> , 2017, 3, e1701116.	4.7	40
17	Quantum Light in Curved Low Dimensional Hexagonal Boron Nitride Systems. <i>Scientific Reports</i> , 2017, 7, 14758.	1.6	28
18	Purification of an unpolarized spin ensemble into entangled singlet pairs. <i>Scientific Reports</i> , 2017, 7, 529.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Measuring broadband magnetic fields on the nanoscale using a hybrid quantum register. Nature Nanotechnology, 2017, 12, 67-72.	15.6	44
20	A repository for quantum measurement trajectories. , 2017, , .		0
21	Thin Circular Diamond Membrane with Embedded Nitrogen-Vacancy Centers for Hybrid Spin-Mechanical Quantum Systems. Physical Review Applied, 2016, 6, .	1.5	25
22	Heralded Control of Mechanical Motion by Single Spins. Physical Review Letters, 2016, 117, 077203.	2.9	26
23	Generation of entangled photon strings using NV centers in diamond. Physical Review B, 2015, 92, .	1.1	27
24	Characterization of how dissipation and dephasing errors accumulate in quantum computers. EPJ Quantum Technology, 2015, 2, .	2.9	10
25	Indirect quantum sensors: improving the sensitivity in characterizing very weakly coupled spins. Faraday Discussions, 2015, 184, 163-171.	1.6	4
26	Filtering single atoms from Rydberg-blockaded mesoscopic ensembles. Physical Review A, 2015, 91, .	1.0	13
27	Deterministic entanglement of Rydberg ensembles by engineered dissipation. Physical Review A, 2014, 90, .	1.0	32
28	Robust Rydberg-interaction gates with adiabatic passage. Physical Review A, 2014, 89, .	1.0	67
29	Dark Entangled Steady States of Interacting Rydberg Atoms. Physical Review Letters, 2013, 111, 033606.	2.9	103
30	Effect of qubit losses on Grover's quantum search algorithm. Physical Review A, 2012, 86, .	1.0	7
31	Generation of Macroscopic Superpositions of Quantum States by Linear Coupling to a Bath. Physical Review Letters, 2011, 106, 010404.	2.9	20
32	Creating Nonclassical States of Bose-Einstein Condensates by Dephasing Collisions. Physical Review Letters, 2011, 107, 010404.	2.9	35
33	From Zeno to anti-Zeno regime: Decoherence-control dependence on the quantum statistics of the bath. Physical Review A, 2011, 83, .	1.0	25
34	Zeno and Anti-Zeno Polarization Control of Spin Ensembles by Induced Dephasing. Physical Review Letters, 2010, 105, 160401.	2.9	63
35	Equilibration by quantum observation. New Journal of Physics, 2010, 12, 053033.	1.2	25
36	Cooling down quantum bits on ultrashort time scales. New Journal of Physics, 2009, 11, 123025.	1.2	38

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37	Quantum frustration of dissipation by a spin bath. <i>New Journal of Physics</i> , 2008, 10, 115017.	1.2	9
38	Teleportation in the presence of common bath decoherence at the transmitting station. <i>Physical Review A</i> , 2008, 78, .	1.0	30
39	Generation of entangled channels for perfect teleportation using multielectron quantum dots. <i>Physical Review A</i> , 2008, 78, .	1.0	29
40	Decoherence of two-electron spin states in quantum dots. <i>Physical Review A</i> , 2007, 75, .	1.0	7
41	Controlled dynamics of qubits in the presence of decoherence. <i>Physical Review A</i> , 2007, 76, .	1.0	14
42	Spin Decoherence in Quantum Dots. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
43	Spin decoherence from Hamiltonian dynamics in quantum dots. <i>Physical Review A</i> , 2006, 74, .	1.0	15