Durga B Rao Dasari

List of Publications by Year
in descending order

43 papers	1,208 citations	304701 22 h-index	377849 34 g-index
44 all docs	44 docs citations	44 times ranked	1397 citing authors

#	Article	IF	Citations
1	Dark Entangled Steady States of Interacting Rydberg Atoms. Physical Review Letters, 2013, 111, 033606.	7.8	103
2	Single-spin resonance in a van der Waals embedded paramagnetic defect. Nature Materials, 2021, 20, 1079-1084.	27.5	95
3	Quantum Properties of Dichroic Silicon Vacancies in Silicon Carbide. Physical Review Applied, 2018, 9, .	3.8	90
4	Robust Rydberg-interaction gates with adiabatic passage. Physical Review A, 2014, 89, .	2.5	67
5	Zeno and Anti-Zeno Polarization Control of Spin Ensembles by Induced Dephasing. Physical Review Letters, 2010, 105, 160401.	7.8	63
6	High-resolution spectroscopy of single nuclear spins via sequential weak measurements. Nature Communications, 2019, 10, 594.	12.8	60
7	Spin-controlled generation of indistinguishable and distinguishable photons from silicon vacancy centres in silicon carbide. Nature Communications, 2020, 11, 2516.	12.8	56
8	Measuring broadband magnetic fields on the nanoscale using a hybrid quantum register. Nature Nanotechnology, 2017, 12, 67-72.	31.5	44
9	A molecular quantum spin network controlled by a single qubit. Science Advances, 2017, 3, e1701116.	10.3	40
10	Cooling down quantum bits on ultrashort time scales. New Journal of Physics, 2009, 11, 123025.	2.9	38
11	Heterodyne sensing of microwaves with a quantum sensor. Nature Communications, 2021, 12, 2737.	12.8	38
12	Creating Nonclassical States of Bose-Einstein Condensates by Dephasing Collisions. Physical Review Letters, 2011, 107, 010404.	7.8	35
13	Deterministic entanglement of Rydberg ensembles by engineered dissipation. Physical Review A, 2014, 90, .	2.5	32
14	Teleportation in the presence of common bath decoherence at the transmitting station. Physical Review A, 2008, 78, .	2.5	30
15	Generation of entangled channels for perfect teleportation using multielectron quantum dots. Physical Review A, 2008, 78, .	2.5	29
16	Quantum Light in Curved Low Dimensional Hexagonal Boron Nitride Systems. Scientific Reports, 2017, 7, 14758.	3.3	28
17	A reinforcement learning approach for quantum state engineering. Quantum Machine Intelligence, 2020, 2, 1.	4.8	28
18	Generation of entangled photon strings using NV centers in diamond. Physical Review B, 2015, 92, .	3.2	27

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19	Heralded Control of Mechanical Motion by Single Spins. Physical Review Letters, 2016, 117, 077203.	7.8	26
20	Equilibration by quantum observation. New Journal of Physics, 2010, 12, 053033.	2.9	25
21	From Zeno to anti-Zeno regime: Decoherence-control dependence on the quantum statistics of the bath. Physical Review A, 2011, 83, .	2.5	25
22	Thin Circular Diamond Membrane with Embedded Nitrogen-Vacancy Centers for Hybrid Spin-Mechanical Quantum Systems. Physical Review Applied, 2016, 6, .	3.8	25
23	Generation of Macroscopic Superpositions of Quantum States by Linear Coupling to a Bath. Physical Review Letters, 2011, 106, 010404.	7.8	20
24	Spin decoherence from Hamiltonian dynamics in quantum dots. Physical Review A, 2006, 74, .	2.5	15
25	Controlled dynamics of qubits in the presence of decoherence. Physical Review A, 2007, 76, .	2.5	14
26	Dissipative entanglement of solid-state spins in diamond. Physical Review A, 2017, 95, .	2.5	14
27	Readout and control of an endofullerene electronic spin. Nature Communications, 2020, 11, 6405.	12.8	14
28	Quantum Fourier transform for nanoscale quantum sensing. Npj Quantum Information, 2021, 7, .	6.7	14
29	Filtering single atoms from Rydberg-blockaded mesoscopic ensembles. Physical Review A, 2015, 91, .	2.5	13
30	Purification of an unpolarized spin ensemble into entangled singlet pairs. Scientific Reports, 2017, 7, 529.	3.3	13
31	Narrow inhomogeneous distribution of spin-active emitters in silicon carbide. Applied Physics Letters, 2021, 118, .	3.3	13
32	Spinâ€“Phonon Interfaces in Coupled Nanomechanical Cantilevers. Nano Letters, 2020, 20, 463-469.	9.1	12
33	Characterization of how dissipation and dephasing errors accumulate in quantum computers. EPJ Quantum Technology, 2015, 2, .	6.3	10
34	Quantum frustration of dissipation by a spin bath. New Journal of Physics, 2008, 10, 115017.	2.9	9
35	Cyclic cooling of quantum systems at the saturation limit. Npj Quantum Information, 2021, 7, .	6.7	9
36	Decoherence of two-electron spin states in quantum dots. Physical Review A, 2007, 75, .	2.5	7

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37	Effect of qubit losses on Grover's quantum search algorithm. Physical Review A, 2012, 86, .	2.5	7
38	Observation of nonclassical measurement statistics induced by a coherent spin environment. Physical Review A, 2019, 100, .	2.5	6
39	Quantum Sensing and Control of Spin-State Dynamics in the Radical-Pair Mechanism. Physical Review Applied, 2021, 15, .	3.8	6
40	Indirect quantum sensors: improving the sensitivity in characterizing very weakly coupled spins. Faraday Discussions, 2015, 184, 163-171.	3.2	4
41	Direct control of high magnetic fields for cold atom experiments based on NV centers. New Journal of Physics, 2021, 23, 023037.	2.9	2
42	Spin Decoherence in Quantum Dots. AIP Conference Proceedings, 2006, , .	0.4	0
43	A repository for quantum measurement trajectories. , 2017, , .		0