

# Quantum computing by optical control of electron spin

Advances in Physics

59, 703-802

DOI: [10.1080/00018732.2010.505452](https://doi.org/10.1080/00018732.2010.505452)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Ultrafast control of electron spin in a quantum dot using geometric phase. , 2011, , .		0
2	Nearly noninvasive readout and manipulation of spin in double quantum dot using spin bias. European Physical Journal B, 2011, 83, 69-75.	0.6	0
3	All-optical quantum computing with a hybrid solid-state processing unit. Physical Review A, 2011, 84, .	1.0	13
4	Electromagnetically induced transparency in an inhomogeneously broadened $\hat{\rho}$ transition with multiple excited levels. Physical Review A, 2011, 83, .	1.0	44
5	Coherent spin control by electromagnetic vacuum fluctuations. Physical Review A, 2011, 83, .	1.0	0
6	Master equation approach to the central spin decoherence problem: Uniform coupling model and role of projection operators. Physical Review B, 2011, 84, .	1.1	31
7	Role of hyperfine interaction for cavity-mediated coupling between spin qubits. Physical Review B, 2011, 84, .	1.1	1
8	The Resonant Fluorescence of a Single InAs Quantum Dot in a Cavity. Chinese Physics Letters, 2012, 29, 104203.	1.3	6
9	Quadrupolar spectra of nuclear spins in strained InGa quantum dots. Physical Review B, 2012, 85, .	1.1	55
10	Coherent electrical rotations of valley states in Si quantum dots using the phase of the valley-orbit coupling. Physical Review B, 2012, 86, .	1.1	17
11	Role of Nuclear Quadrupole Coupling on Decoherence and Relaxation of Central Spins in Quantum Dots. Physical Review Letters, 2012, 109, 166605.	2.9	56
12	Non-Markovian dynamics and strong coupling between atomic transitions and a waveguide continuum edge. Physical Review A, 2012, 85, .	1.0	3
13	In-plane radiative recombination channel of a dark exciton in self-assembled quantum dots. Physical Review B, 2012, 86, .	1.1	42
14	All-Electrical Control of the Photon-Charge-Qubit Interfaces for Quantum Networks. Journal of the Physical Society of Japan, 2012, 81, 104001.	0.7	1
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18	Quantum decoherence of the central spin in a sparse system of dipolar coupled spins. Physical Review B, 2012, 86, .	1.1	65

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19	Ultrafast control of electron spin in a quantum dot using geometric phase. <i>Solid-State Electronics</i> , 2012, 78, 28-33.	0.8	2
20	Collective nuclear stabilization in single quantum dots by noncollinear hyperfine interaction. <i>Physical Review B</i> , 2012, 85, .	1.1	21
21	Studies of the hole spin in self-assembled quantum dots using optical techniques. , 2012, , 63-85.		2
22	Graphene quantum dots: transport experiments and local imaging. , 0, , 296-316.		0
23	Geometric single-qubit gates for an electron spin in a quantum dot. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3744-3749.	1.0	2
24	Nonequilibrium Spin Noise Spectroscopy. <i>Physical Review Letters</i> , 2013, 111, 067201.	2.9	25
25	Leveraging Crystal Anisotropy for Deterministic Growth of InAs Quantum Dots with Narrow Optical Linewidths. <i>Nano Letters</i> , 2013, 13, 4870-4875.	4.5	25
26	Single-photon storing in coupled non-Markovian atom-cavity system. <i>Physical Review A</i> , 2013, 88, .	1.0	28
27	Prospects for Spin-Based Quantum Computing in Quantum Dots. <i>Annual Review of Condensed Matter Physics</i> , 2013, 4, 51-81.	5.2	304
28	Quantum control of a spin qubit coupled to a photonic crystal cavity. <i>Nature Photonics</i> , 2013, 7, 329-334.	15.6	115
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31	Magnetoelectric effects and valley-controlled spin quantum gates in transition metal dichalcogenide bilayers. <i>Nature Communications</i> , 2013, 4, 2053.	5.8	302
32	Hyperfine interaction induced dephasing of coupled spin qubits in semiconductor double quantum dots. <i>Physical Review B</i> , 2013, 88, .	1.1	19
33	Influence of exciton spin relaxation on the photoluminescence spectra of semimagnetic quantum dots. <i>Physical Review B</i> , 2013, 87, .	1.1	13
34	Robust Distant Entanglement Generation Using Coherent Multiphoton Scattering. <i>Physical Review Letters</i> , 2013, 110, 070501.	2.9	7
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36	Three-dimensional topological insulator quantum dot for optically controlled quantum memory and quantum computing. <i>Physical Review B</i> , 2013, 88, .	1.1	34

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44	Strong coupling without touching. <i>National Science Review</i> , 2014, 1, 472-473.	4.6	0
45	Extended linear regime of cavity-QED enhanced optical circular birefringence induced by a charged quantum dot. <i>Physical Review B</i> , 2015, 91, .	1.1	28
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50	Site-controlled InGaAs/GaAs pyramidal quantum dots grown by MOVPE on patterned substrates using triethylgallium. <i>Journal of Crystal Growth</i> , 2015, 414, 187-191.	0.7	10
51	Error-rejecting quantum computing with solid-state spins assisted by low-Q optical microcavities. <i>Physical Review A</i> , 2016, 94, .	1.0	50
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61	Valley-polarized quantum transport generated by gauge fields in graphene. <i>2D Materials</i> , 2017, 4, 031006.	2.0	35
62	Optimized all-optical control of single spin quantum dynamics in diamond * *This work is supported by the National Natural Science Foundation of China (Grants No. 61134008, No. 61374091, and No.) Tj ETQq1 1 0.784314 rgBI /Overlook	1.1	1
63	Scattering of charged particles on two spatially separated time-periodic optical fields. <i>Physical Review A</i> , 2017, 96, .	1.0	2
64	Entanglement Purification of Nonlocal Quantum-Dot-Confined Electrons Assisted by Double-Sided Optical Microcavities. <i>Annalen Der Physik</i> , 2018, 530, 1800029.	0.9	11
65	Picosecond pulse shaping of single photons using quantum dots. <i>Nature Communications</i> , 2018, 9, 115.	5.8	38
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67	Enhanced cooperativity for quantum-nondemolition-measurement-induced spin squeezing of atoms coupled to a nanophotonic waveguide. <i>Physical Review A</i> , 2018, 97, .	1.0	6
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71	Quantum Control in Multilevel Systems. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2018, 67, 151-256.	2.3	21
72	Heralded Universal Quantum Gate and Entangler Assisted by Imperfect Double-Sided-Quantum-Dot-Microcavity Systems. <i>Annalen Der Physik</i> , 2018, 530, 1800071.	0.9	14

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74	Spin-selective AC Stark shifts in a charged quantum dot. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	9
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95	Sequential generalized measurements: Asymptotics, typicality, and emergent projective measurements. Physical Review A, 2023, 107, .	1.0	1
96	Truncated Wigner approximation for the bosonic model of large spin baths. Physical Review B, 2023, 107, .	1.1	0
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