

Xin Wang

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.

50
papers

1,173
citations

19
h-index

33
g-index

52
ext. papers

1,450
ext. citations

3.9
avg, IF

4.68
L-index

#	Paper	IF	Citations
50	Generic detection-based error mitigation using quantum autoencoders. <i>Physical Review A</i> , 2021 , 103,	2.6	1
49	Generalizable control for multiparameter quantum metrology. <i>Physical Review A</i> , 2021 , 103,	2.6	2
48	Implementation of Geometric Quantum Gates on Microwave-Driven Semiconductor Charge Qubits. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100011	4.3	1
47	High-fidelity geometric gate for silicon-based spin qubits. <i>Physical Review A</i> , 2020 , 101,	2.6	10
46	Plug-and-Play Approach to Nonadiabatic Geometric Quantum Gates. <i>Physical Review Letters</i> , 2019 , 123, 100501	7.4	65
45	Quantum information scrambling through a high-complexity operator mapping. <i>Physical Review A</i> , 2019 , 100,	2.6	3
44	Minimal nonorthogonal gate decomposition for qubits with limited control. <i>Physical Review A</i> , 2019 , 99,	2.6	1
43	Spin-qubit noise spectroscopy from randomized benchmarking by supervised learning. <i>Physical Review A</i> , 2019 , 99,	2.6	1
42	Generalizable control for quantum parameter estimation through reinforcement learning. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	33
41	When does reinforcement learning stand out in quantum control? A comparative study on state preparation. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	29
40	Suppression of Leakage for a Charge Qubit in Triangular Triple Quantum Dots. <i>Advanced Quantum Technologies</i> , 2019 , 2, 1900072	4.3	4
39	Neural-network-designed pulse sequences for robust control of singlet-triplet qubits. <i>Physical Review A</i> , 2018 , 97,	2.6	19
38	Leakage and sweet spots in triple-quantum-dot spin qubits: A molecular-orbital study. <i>Physical Review A</i> , 2018 , 97,	2.6	9
37	Magic angle for barrier-controlled double quantum dots. <i>Physical Review A</i> , 2018 , 97,	2.6	3
36	Tunable charge qubit based on barrier-controlled triple quantum dots. <i>Physical Review A</i> , 2018 , 98,	2.6	4
35	Automatic spin-chain learning to explore the quantum speed limit. <i>Physical Review A</i> , 2018 , 97,	2.6	24
34	On the validity of microscopic calculations of double-quantum-dot spin qubits based on Fock-Darwin states. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	1

33	Suppression of charge noise using barrier control of a singlet-triplet qubit. <i>Physical Review A</i> , 2017 , 96,	2.6	9
32	Energy spectrum, exchange interaction, and gate crosstalk in a system with a pair of double quantum dots: A molecular-orbital calculation. <i>Physical Review A</i> , 2017 , 95,	2.6	4
31	Randomized Benchmarking of Barrier versus Tilt Control of a Singlet-Triplet Qubit. <i>Physical Review Letters</i> , 2017 , 118, 216802	7.4	22
30	Fast pulse sequences for dynamically corrected gates in singlet-triplet qubits. <i>Physical Review B</i> , 2017 , 96,	3.3	12
29	Noise filtering of composite pulses for singlet-triplet qubits. <i>Scientific Reports</i> , 2016 , 6, 28996	4.9	15
28	Benchmarking of dynamically corrected gates for the exchange-only spin qubit in a 1/f noise environment. <i>Physical Review A</i> , 2016 , 94,	2.6	5
27	Fast control of semiconductor qubits beyond the rotating-wave approximation. <i>Physical Review A</i> , 2016 , 94,	2.6	11
26	Improving the gate fidelity of capacitively coupled spin qubits. <i>Npj Quantum Information</i> , 2015 , 1,	8.6	16
25	Robust quantum control using smooth pulses and topological winding. <i>Scientific Reports</i> , 2015 , 5, 12685	4.9	30
24	Ferromagnetic response of a High-temperature quantum antiferromagnet. <i>Physical Review B</i> , 2014 , 89,	3.3	7
23	Robust two-qubit gates for exchange-coupled qubits. <i>Physical Review B</i> , 2014 , 89,	3.3	17
22	Noise-compensating pulses for electrostatically controlled silicon spin qubits. <i>Physical Review B</i> , 2014 , 90,	3.3	16
21	Robust quantum gates for singlet-triplet spin qubits using composite pulses. <i>Physical Review A</i> , 2014 , 89,	2.6	57
20	Dynamically corrected gates for an exchange-only qubit. <i>Physical Review B</i> , 2013 , 88,	3.3	20
19	Noise-resistant control for a spin qubit array. <i>Physical Review Letters</i> , 2013 , 110, 140502	7.4	62
18	Covalency, double-counting, and the metal-insulator phase diagram in transition metal oxides. <i>Physical Review B</i> , 2012 , 86,	3.3	59
17	Composite pulses for robust universal control of singlet-triplet qubits. <i>Nature Communications</i> , 2012 , 3, 997	17.4	112
16	High-frequency asymptotic behavior of self-energies in quantum impurity models. <i>Physical Review B</i> , 2011 , 84,	3.3	15

15	Diagrammatic quantum Monte Carlo solution of the two-dimensional cooperon-fermion model. <i>Physical Review B</i> , 2011 , 83,	3-3	11
14	Generic Hubbard model description of semiconductor quantum-dot spin qubits. <i>Physical Review B</i> , 2011 , 83,	3-3	39
13	Hubbard model description of silicon spin qubits: Charge stability diagram and tunnel coupling in Si double quantum dots. <i>Physical Review B</i> , 2011 , 83,	3-3	23
12	Mott-insulating phases and magnetism of fermions in a double-well optical lattice. <i>Physical Review A</i> , 2011 , 84,	2.6	2
11	Quantum theory of the charge-stability diagram of semiconductor double-quantum-dot systems. <i>Physical Review B</i> , 2011 , 84,	3-3	13
10	Role of oxygen-oxygen hopping in the three-band copper-oxide model: Quasiparticle weight, metal insulator and magnetic phase boundaries, gap values, and optical conductivity. <i>Physical Review B</i> , 2011 , 83,	3-3	19
9	Dynamical mean-field theory of nickelate superlattices. <i>Physical Review Letters</i> , 2011 , 107, 206804	7.4	85
8	$d_{3z^2-r^2}$ orbital in high-Tc cuprates: Excitonic spectrum, metal-insulator phase diagram, optical conductivity, and orbital character of doped holes. <i>Physical Review B</i> , 2011 , 84,	3-3	19
7	Theory of oxygen K edge x-ray absorption spectra of cuprates. <i>Physical Review B</i> , 2010 , 81,	3-3	19
6	Quantum criticality and non-Fermi-liquid behavior in a two-level two-lead quantum dot. <i>Physical Review B</i> , 2010 , 81,	3-3	8
5	Correlation strength, gaps, and particle-hole asymmetry in high-Tc cuprates: A dynamical mean field study of the three-band copper-oxide model. <i>Physical Review B</i> , 2009 , 80,	3-3	44
4	Antiferromagnetism and the gap of a Mott insulator: Results from analytic continuation of the self-energy. <i>Physical Review B</i> , 2009 , 80,	3-3	57
3	Electronic correlation in nanoscale junctions: Comparison of the GW approximation to a numerically exact solution of the single-impurity Anderson model. <i>Physical Review B</i> , 2008 , 77,	3-3	48
2	Local order and the gapped phase of the Hubbard model: A plaquette dynamical mean-field investigation. <i>Europhysics Letters</i> , 2008 , 84, 37009	1.6	83
1	Additive Temporal Coloured Noise Induced Eckhaus Instability in Complex Ginzburg-Landau Equation System. <i>Chinese Physics Letters</i> , 2004 , 21, 2365-2368	1.8	2