

Robert E Throckmorton

List of Publications by Year in descending order

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22
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citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipation and gate timing errors in SWAP operations of qubits. Physical Review B, 2022, 105, .	1.1	1
2	Crosstalk- and charge-noise-induced multiqubit decoherence in exchange-coupled quantum dot spin qubit arrays. Physical Review B, 2022, 105, .	1.1	4
3	Studying many-body localization in exchange-coupled electron spin qubits using spin-spin correlations. Physical Review B, 2021, 103, .	1.1	7
4	Fidelity of a sequence of SWAP operations on a spin chain. Physical Review B, 2020, 102, .	1.1	3
5	Spontaneous symmetry breaking in a honeycomb lattice subject to a periodic potential. Physical Review Research, 2020, 2, .	1.3	5
6	Simulation of the coupling strength of capacitively coupled singlet-triplet qubits. Physical Review B, 2019, 100, .	1.1	6
7	Conditions allowing error correction in driven qubits. Physical Review B, 2019, 99, .	1.1	9
8	Crosstalk error correction through dynamical decoupling of single-qubit gates in capacitively coupled singlet-triplet semiconductor spin qubits. Physical Review B, 2018, 97, .	1.1	20
9	Plasmon-pole approximation for many-body effects in extrinsic graphene. Physical Review B, 2018, 98, .	1.1	5
10	Failure of Kohn's theorem and the apparent failure of the f-sum rule in intrinsic Dirac-Weyl materials in the presence of a filled Fermi sea. Physical Review B, 2018, 98, .	1.1	11
11	Error correction for gate operations in systems of exchange-coupled singlet-triplet qubits in double quantum dots. Physical Review B, 2018, 98, .	1.1	12
12	Environmental noise effects on entanglement fidelity of exchange-coupled semiconductor spin qubits. Physical Review B, 2017, 95, .	1.1	15
13	Randomized Benchmarking of Barrier versus Tilt Control of a Singlet-Triplet Qubit. Physical Review Letters, 2017, 118, 216802.	2.9	32
14	Fast pulse sequences for dynamically corrected gates in singlet-triplet qubits. Physical Review B, 2017, 96, .	1.1	16
15	Dynamics of two coupled semiconductor spin qubits in a noisy environment. Physical Review B, 2016, 94, .	1.1	10
16	Noise-induced collective quantum state preservation in spin qubit arrays. Physical Review B, 2016, 93, .	1.1	11
17	Many-body effects and ultraviolet renormalization in three-dimensional Dirac materials. Physical Review B, 2015, 92, .	1.1	50
18	Quantum multicriticality in bilayer graphene with a tunable energy gap. Physical Review B, 2014, 90, .	1.1	8

#	ARTICLE	IF	CITATIONS
19	Fermions on bilayer graphene: Symmetry breaking for $B=0$ and $\frac{1}{2}=0$. Physical Review B, 2012, 86, .	1.1	51
20	Electronic multicriticality in bilayer graphene. Physical Review B, 2012, 86, .	1.1	76
21	Relaxation of nuclear magnetic moments and site-selective NMR in d -wave superconductors. Physical Review B, 2010, 81, .	1.1	2