Xiao-Feng Shi

List of Publications by Year in descending order

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687335 677123 25 481 13 22 h-index citations g-index papers 25 25 25 360 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Quantum emulation of a spin system with topologically protected ground states using superconducting quantum circuits. Physical Review B, 2010, 81, .	3.2	80
2	Deutsch, Toffoli, and cnot Gates via Rydberg Blockade of Neutral Atoms. Physical Review Applied, 2018, 9, .	3.8	55
3	Rydberg Quantum Gates Free from Blockade Error. Physical Review Applied, 2017, 7, .	3.8	39
4	Quantum logic and entanglement by neutral Rydberg atoms: methods and fidelity. Quantum Science and Technology, 2022, 7, 023002.	5.8	30
5	Fast, Accurate, and Realizable Two-Qubit Entangling Gates by Quantum Interference in Detuned Rabi Cycles of Rydberg Atoms. Physical Review Applied, 2019, 11, .	3.8	29
6	Suppressing Motional Dephasing of Ground-Rydberg Transition for High-Fidelity Quantum Control with Neutral Atoms. Physical Review Applied, 2020, 13, .	3.8	27
7	Accurate Quantum Logic Gates by Spin Echo in Rydberg Atoms. Physical Review Applied, 2018, 10, .	3.8	24
8	Entanglement of neutral-atom chains by spin-exchange Rydberg interaction. Physical Review A, 2014, 90,	2.5	23
9	Annulled van der Waals interaction and fast Rydberg quantum gates. Physical Review A, 2017, 95, .	2.5	23
10	Topological quantum phase transition in the extended Kitaev spin model. Physical Review B, 2009, 79, .	3.2	22
11	Influence of electric field on the amyloid- $\langle i \rangle \hat{l}^2 \langle i \rangle (29-42)$ peptides embedded in a membrane bilayer. Journal of Chemical Physics, 2018, 148, 045105.	3.0	21
12	Small static electric field strength promotes aggregation-prone structures in amyloid- $\langle i \rangle \hat{l}^2 \langle i \rangle (29-42)$. Journal of Chemical Physics, 2017, 146, 145101.	3.0	17
13	Amyloid-β(29–42) Dimeric Conformations in Membranes Rich in Omega-3 and Omega-6 Polyunsaturated Fatty Acids. Journal of Physical Chemistry B, 2019, 123, 2687-2696.	2.6	14
14	Transition Slow-Down by Rydberg Interaction of Neutral Atoms and a Fast Controlled-not Quantum Gate. Physical Review Applied, 2020, 14 , .	3.8	14
15	Rydberg quantum computation with nuclear spins in two-electron neutral atoms. Frontiers of Physics, 2021, 16, 1.	5.0	11
16	Exotic phase diagram of a topological quantum system. Physical Review B, 2010, 82, .	3.2	9
17	Single-site Rydberg addressing in 3D atomic arrays for quantum computing with neutral atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 054002.	1.5	9
18	Simulating magnetic fields in Rydberg-dressed neutral atoms. Physical Review A, 2018, 97, .	2.5	8

XIAO-FENG SHI

#	Article	IF	CITATIONS
19	Universal Barenco quantum gates via a tunable noncollinear interaction. Physical Review A, 2018, 97, .	2.5	7
20	Nuclear spin polarization in a single quantum dot pumped by two laser beams. Physical Review B, 2013, 87, .	3.2	6
21	Quantum gates with weak van der Waals interactions of neutral Rydberg atoms. Physical Review A, 2021, 104, .	2.5	5
22	Hyperentanglement of divalent neutral atoms by Rydberg blockade. Physical Review A, 2021, 104, .	2.5	4
23	Spin–charge separation of dark-state polaritons in a Rydberg medium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074005.	1.5	3
24	Rydberg Wire Gates for Universal Quantum Computation. Frontiers in Physics, 0, 10, .	2.1	1
25	Fast atom-photon entangling gates with a superconducting coplanar waveguide. Physical Review A, 2022, 105, .	2.5	0