

Xiao-Feng Shi

List of Publications by Citations

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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.

20
papers

310
citations

11
h-index

17
g-index

25
ext. papers

409
ext. citations

3.3
avg, IF

4.85
L-index

#	Paper	IF	Citations
20	Quantum emulation of a spin system with topologically protected ground states using superconducting quantum circuits. <i>Physical Review B</i> , 2010 , 81,	3.3	64
19	Deutsch, Toffoli, and cnot Gates via Rydberg Blockade of Neutral Atoms. <i>Physical Review Applied</i> , 2018 , 9,	4.3	33
18	Rydberg Quantum Gates Free from Blockade Error. <i>Physical Review Applied</i> , 2017 , 7,	4.3	28
17	Fast, Accurate, and Realizable Two-Qubit Entangling Gates by Quantum Interference in Detuned Rabi Cycles of Rydberg Atoms. <i>Physical Review Applied</i> , 2019 , 11,	4.3	21
16	Topological quantum phase transition in the extended Kitaev spin model. <i>Physical Review B</i> , 2009 , 79,	3.3	21
15	Accurate Quantum Logic Gates by Spin Echo in Rydberg Atoms. <i>Physical Review Applied</i> , 2018 , 10,	4.3	19
14	Annulled van der Waals interaction and fast Rydberg quantum gates. <i>Physical Review A</i> , 2017 , 95,	2.6	18
13	Entanglement of neutral-atom chains by spin-exchange Rydberg interaction. <i>Physical Review A</i> , 2014 , 90,	2.6	17
12	Influence of electric field on the amyloid-(29-42) peptides embedded in a membrane bilayer. <i>Journal of Chemical Physics</i> , 2018 , 148, 045105	3.9	13
11	Small static electric field strength promotes aggregation-prone structures in amyloid-(29-42). <i>Journal of Chemical Physics</i> , 2017 , 146, 145101	3.9	12
10	Suppressing Motional Dephasing of Ground-Rydberg Transition for High-Fidelity Quantum Control with Neutral Atoms. <i>Physical Review Applied</i> , 2020 , 13,	4.3	12
9	Amyloid-(29-42) Dimeric Conformations in Membranes Rich in Omega-3 and Omega-6 Polyunsaturated Fatty Acids. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2687-2696	3.4	11
8	Exotic phase diagram of a topological quantum system. <i>Physical Review B</i> , 2010 , 82,	3.3	8
7	Universal Barenco quantum gates via a tunable noncollinear interaction. <i>Physical Review A</i> , 2018 , 97,	2.6	6
6	Nuclear spin polarization in a single quantum dot pumped by two laser beams. <i>Physical Review B</i> , 2013 , 87,	3.3	6
5	Transition Slow-Down by Rydberg Interaction of Neutral Atoms and a Fast Controlled-not Quantum Gate. <i>Physical Review Applied</i> , 2020 , 14,	4.3	5
4	Single-site Rydberg addressing in 3D atomic arrays for quantum computing with neutral atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 054002	1.3	4

- 3 Simulating magnetic fields in Rydberg-dressed neutral atoms. *Physical Review A*, **2018**, 97, 2.6 4
- 2 Rydberg quantum computation with nuclear spins in two-electron neutral atoms. *Frontiers of Physics*, **2021**, 16, 1 3-7 4
- 1 Spincharge separation of dark-state polaritons in a Rydberg medium. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2016**, 49, 074005 1-3 3