

Julen Pedernales

List of Publications by Year in descending order

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823
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Significance of Interferometric Revivals for the Fundamental Description of Gravity. Universe, 2022, 8, 58.	2.5	23
2	Enhancing Gravitational Interaction between Quantum Systems by a Massive Mediator. Physical Review Letters, 2022, 128, 110401.	7.8	30
3	Robust macroscopic matter-wave interferometry with solids. Physical Review A, 2022, 105, .	2.5	1
4	Ground-State Cooling of Levitated Magnets in Low-Frequency Traps. Physical Review Letters, 2021, 126, 193602.	7.8	11
5	Enhanced force sensitivity and entanglement in periodically driven optomechanics. Physical Review A, 2021, 103, .	2.5	17
6	Decoherence-Free Rotational Degrees of Freedom for Quantum Applications. Physical Review Letters, 2020, 125, 090501.	7.8	6
7	Motional Dynamical Decoupling for Interferometry with Macroscopic Particles. Physical Review Letters, 2020, 125, 023602.	7.8	51
8	Dirac Equation in ($\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle T_j \text{ETQq0 0 0 rgBT /Overlock 10 Tf 50 472 Td (disp}$) 2018, 120, 160403.	7.8	29
9	Nonlinear quantum Rabi model in trapped ions. Physical Review A, 2018, 97, .	2.5	39
10	Entanglement measures in embedding quantum simulators with nuclear spins. Physical Review A, 2018, 97, .	2.5	11
11	Experimental quantum simulation of fermion-antifermion scattering via boson exchange in a trapped ion. Nature Communications, 2018, 9, 195.	12.8	21
12	Quantum Simulation of the Quantum Rabi Model in a Trapped Ion. Physical Review X, 2018, 8, .	8.9	84
13	Pulsed dynamical decoupling for fast and robust two-qubit gates on trapped ions. Physical Review A, 2018, 97, .	2.5	20
14	A Study on Fast Gates for Large-Scale Quantum Simulation with Trapped Ions. Scientific Reports, 2017, 7, 46197.	3.3	14
15	Measurement of linear response functions in Nuclear Magnetic Resonance. Scientific Reports, 2017, 7, 12797.	3.3	7
16	Switchable particle statistics with an embedding quantum simulator. Physical Review A, 2017, 95, .	2.5	4
17	A Single-Ion Reservoir as a High-Sensitive Sensor of Electric Signals. Scientific Reports, 2017, 7, 8336.	3.3	13
18	Quantum simulation of quantum channels in nuclear magnetic resonance. Physical Review A, 2017, 96, .	2.5	30

#	ARTICLE	IF	CITATIONS
19	Digital-Analog Quantum Simulation of Spin Models in Trapped Ions. Scientific Reports, 2016, 6, 30534.	3.3	45
20	Measuring Entanglement in a Photonic Embedding Quantum Simulator. Physical Review Letters, 2016, 116, 070503.	7.8	14
21	Spectral collapse via two-phonon interactions in trapped ions. Physical Review A, 2015, 92, .	2.5	92
22	Quantum Rabi Model with Trapped Ions. Scientific Reports, 2015, 5, 15472.	3.3	124
23	Quantum Simulation of Dissipative Processes without Reservoir Engineering. Scientific Reports, 2015, 5, 9981.	3.3	32
24	Efficient Quantum Algorithm for Computing $\langle n \rangle$ -time Correlation Functions. Physical Review Letters, 2014, 113, 020505.	7.8	45
25	Entanglement measures in ion-trap quantum simulators without full tomography. Physical Review A, 2014, 90, .	2.5	9
26	Digital Quantum Rabi and Dicke Models in Superconducting Circuits. Scientific Reports, 2014, 4, 7482.	3.3	90
27	Embedding Quantum Simulators for Quantum Computation of Entanglement. Physical Review Letters, 2013, 111, 240502.	7.8	21
28	Quantum simulations of relativistic quantum physics in circuit QED. New Journal of Physics, 2013, 15, 055008.	2.9	34