Frank Gaitan

List of Publications by Year in descending order

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FDANK CAITAN

#	Article	IF	CITATIONS
1	Solving Burgers' equation with quantum computing. Quantum Information Processing, 2022, 21, 1.	2.2	14
2	Finding Solutions of the Navierâ€Stokes Equations through Quantum Computing—Recent Progress, a Generalization, and Next Steps Forward. Advanced Quantum Technologies, 2021, 4, 2100055.	3.9	14
3	Finding flows of a Navier–Stokes fluid through quantum computing. Npj Quantum Information, 2020, 6, .	6.7	65
4	High-fidelity quantum state preparation using neighboring optimal control. Quantum Information Processing, 2017, 16, 1.	2.2	0
5	Generalized Ramsey numbers through adiabatic quantum optimization. Quantum Information Processing, 2016, 15, 3519-3542.	2.2	2
6	Graph isomorphism and adiabatic quantum computing. Physical Review A, 2014, 89, .	2.5	33
7	Improving quantum gate performance through neighboring optimal control. Physical Review A, 2014, 90, .	2.5	1
8	Experimental Determination of Ramsey Numbers. Physical Review Letters, 2013, 111, 130505.	7.8	75
9	Ramsey Numbers and Adiabatic Quantum Computing. Physical Review Letters, 2012, 108, 010501.	7.8	52
10	Robust high-fidelity universal set of quantum gates through non-adiabatic rapid passage. Journal of Modern Optics, 2011, 58, 1922-1927.	1.3	2
11	High-fidelity universal quantum gates through quantum interference. , 2010, , .		0
12	High-fidelity universal quantum gates. Quantum Information and Computation, 2010, 10, 936-946.	0.3	4
13	Density functional theory and quantum computation. Physical Review B, 2009, 79, .	3.2	11
14	Noise-induced sampling of alternative Hamiltonian paths in quantum adiabatic search. Complexity, 2009, 14, 21-27.	1.6	4
15	QUANTUM ERROR CORRECTION AND FAULT-TOLERANT QUANTUM COMPUTING. , 2009, , .		6
16	SIMULATION OF QUANTUM ADIABATIC SEARCH IN THE PRESENCE OF NOISE. International Journal of Quantum Information, 2006, 04, 843-870.	1.1	13
17	Controlling Qubit Transitions through Quantum Interference during Nonadiabatic Rapid Passage. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 257.	0.6	4
18	Controlling qubit transitions during non-adiabatic rapid passage through quantum interference. Journal of Modern Optics, 2004, 51, 2415-2427.	1.3	3

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19	Non-adiabatic rapid passage. Chemical Physics Letters, 2003, 375, 429-434.	2.6	12
20	Temporal interferometry: A mechanism for controlling qubit transitions during twisted rapid passage with possible application to quantum computing. Physical Review A, 2003, 68, .	2.5	18
21	Berry phase modification of the current drive in a restricted class of large annular Josephson junctions at low temperature. Physical Review B, 2001, 63, .	3.2	4
22	Dynamic interplay of Berry's phase and spectral flow in the current-voltage characteristics of a restricted class of large SNS annular Josephson junctions. Physical Review B, 2001, 63, .	3.2	4
23	Berry's Phase in the Presence of a Non-adiabatic Environment with an Application to Magnetic Resonance. Journal of Magnetic Resonance, 1999, 139, 152-164.	2.1	11
24	Berry's phase in the presence of a stochastically evolving environment: A geometric mechanism for energy-level broadening. Physical Review A, 1998, 58, 1665-1677.	2.5	20
25	Berry's Phase and a Possible New Topological Current Drive in Certain Weak Link Superconducting Systems. Physical Review Letters, 1996, 76, 4404-4407.	7.8	11
26	Microscopic analysis of the nondissipative force on a line vortex in a superconductor: Berry's phase, momentum flow, and the Magnus force. Physical Review B, 1995, 51, 9061-9073.	3.2	30
27	Microscopical analysis of the non-dissipative force on a line vortex in a superconductor. Journal of Physics Condensed Matter, 1995, 7, L165-L170.	1.8	4
28	On the observability of mesoscopic or macroscopic quantum coherence of domain walls in magnetic insulators. Journal of Physics Condensed Matter, 1994, 6, 7565-7579.	1.8	2
29	Backflow and Its Consequences for the Intrinsic Orbital Angular Momentum in 3He-A: A Way to Understand Past Disagreements. Annals of Physics, 1994, 235, 390-412.	2.8	15
30	On domain wall quantum coherence in magnetic insulators. Physica B: Condensed Matter, 1994, 194-196, 265-266.	2.7	2
31	Backflow and its consequences for the intrinsic orbital angular momentum in 3Heî—A: a way to reconcile past disagreements. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 178, 419-425.	2.1	4
32	Demonstration of anomalous symmetry breaking in 3Heî—,A. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 151, 551-561.	2.1	6
33	Berry's phase and the Wess-Zumino effective action in 3Heî—,A. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 136, 433-440.	2.1	9
34	Topological charge and chiral anomalies in fermi superfluids. Annals of Physics, 1987, 178, 89-109.	2.8	64
35	Quantum Error Correction and Fault Tolerant Quantum Computing. , 0, , .		57