## Frank Gaitan

List of Publications by Year in descending order

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FDANK CAITAN

#	Article	IF	CITATIONS
1	Experimental Determination of Ramsey Numbers. Physical Review Letters, 2013, 111, 130505.	7.8	75
2	Finding flows of a Navier–Stokes fluid through quantum computing. Npj Quantum Information, 2020, 6, .	6.7	65
3	Topological charge and chiral anomalies in fermi superfluids. Annals of Physics, 1987, 178, 89-109.	2.8	64
4	Quantum Error Correction and Fault Tolerant Quantum Computing. , 0, , .		57
5	Ramsey Numbers and Adiabatic Quantum Computing. Physical Review Letters, 2012, 108, 010501.	7.8	52
6	Graph isomorphism and adiabatic quantum computing. Physical Review A, 2014, 89, .	2.5	33
7	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
8	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
9	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
10	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
11	Finding Solutions of the Navierâ€6tokes Equations through Quantum Computing—Recent Progress, a Generalization, and Next Steps Forward. Advanced Quantum Technologies, 2021, 4, 2100055.	3.9	14
12	Solving Burgers' equation with quantum computing. Quantum Information Processing, 2022, 21, 1.	2.2	14
13	SIMULATION OF QUANTUM ADIABATIC SEARCH IN THE PRESENCE OF NOISE. International Journal of Quantum Information, 2006, 04, 843-870.	1.1	13
14	Non-adiabatic rapid passage. Chemical Physics Letters, 2003, 375, 429-434.	2.6	12
15	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
16	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
17	Density functional theory and quantum computation. Physical Review B, 2009, 79, .	3.2	11
18	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

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19	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
20	QUANTUM ERROR CORRECTION AND FAULT-TOLERANT QUANTUM COMPUTING. , 2009, , .		6
21	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
22	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
23	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
24	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
25	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
26	Noise-induced sampling of alternative Hamiltonian paths in quantum adiabatic search. Complexity, 2009, 14, 21-27.	1.6	4
27	High-fidelity universal quantum gates. Quantum Information and Computation, 2010, 10, 936-946.	0.3	4
28	Controlling qubit transitions during non-adiabatic rapid passage through quantum interference. Journal of Modern Optics, 2004, 51, 2415-2427.	1.3	3
29	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
30	On domain wall quantum coherence in magnetic insulators. Physica B: Condensed Matter, 1994, 194-196, 265-266.	2.7	2
31	Robust high-fidelity universal set of quantum gates through non-adiabatic rapid passage. Journal of Modern Optics, 2011, 58, 1922-1927.	1.3	2
32	Generalized Ramsey numbers through adiabatic quantum optimization. Quantum Information Processing, 2016, 15, 3519-3542.	2.2	2
33	Improving quantum gate performance through neighboring optimal control. Physical Review A, 2014, 90, .	2.5	1
34	High-fidelity universal quantum gates through quantum interference. , 2010, , .		0
35	High-fidelity quantum state preparation using neighboring optimal control. Quantum Information Processing, 2017, 16, 1.	2.2	0