

# Dianmin Tong

## List of Publications by Year in descending order

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68  
papers

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201385

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all docs

68  
docs citations

68  
times ranked

1122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing multi-qubit controlled nonadiabatic holonomic gates with connecting systems. AAPPS Bulletin, 2022, 32, 1.	2.7	19
2	Approaching Heisenberg-scalable thermometry with built-in robustness against noise. Npj Quantum Information, 2022, 8, .	2.8	5
3	Experimental realization of nonadiabatic geometric gates with a superconducting Xmon qubit. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	23
4	Relationship between first-order coherence and the maximum violation of the three-setting linear steering inequality for a two-qubit system. Physical Review A, 2021, 103, .	1.0	8
5	Coherence-protected nonadiabatic geometric quantum computation. Physical Review Research, 2021, 3, .	1.3	3
6	Realizing nonadiabatic holonomic quantum computation beyond the three-level setting. Physical Review A, 2021, 103, .	1.0	10
7	Realization of nonadiabatic holonomic multiqubit controlled gates with Rydberg atoms. Physical Review A, 2021, 104, .	1.0	8
8	Visualizing quantum phase transitions in the $\langle \sigma_x \rangle$ model via the quantum steering ellipsoid. Physical Review A, 2021, 104, .	1.0	7
9	Dynamical-decoupling-protected nonadiabatic holonomic quantum computation. Physical Review A, 2021, 103, .	1.0	15
10	Maximal-value condition of coherence measures holds for mixed states if and only if it does for pure states. Physical Review A, 2020, 102, .	1.0	3
11	Examining the validity of Schatten- $p$ -norm-based functionals as coherence measures. Physical Review A, 2020, 102, .	1.0	10
12	General approach for constructing Hamiltonians for nonadiabatic holonomic quantum computation. Physical Review A, 2020, 101, .	1.0	29
13	Approach to realizing nonadiabatic geometric gates with prescribed evolution paths. Physical Review Research, 2020, 2, .	1.3	19
14	Single-shot realization of nonadiabatic holonomic gates with a superconducting Xmon qubit. New Journal of Physics, 2019, 21, 073024.	1.2	28
15	Nonadiabatic holonomic multiqubit controlled gates. Physical Review A, 2019, 99, .	1.0	28
16	Flag additivity in quantum resource theories. Physical Review A, 2019, 99, .	1.0	17
17	Estimating Coherence Measures from Limited Experimental Data Available. Physical Review Letters, 2018, 120, 170501.	2.9	37
18	Superadditivity of convex roof coherence measures. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 414012.	0.7	13

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19	Path-shortening realizations of nonadiabatic holonomic gates. <i>Physical Review A</i> , 2018, 98, .	1.0	29
20	Nonadiabatic holonomic quantum computation with Rydberg superatoms. <i>Physical Review A</i> , 2018, 98, .	1.0	32
21	Composite nonadiabatic holonomic quantum computation. <i>Physical Review A</i> , 2017, 95, .	1.0	44
22	Universal freezing of asymmetry. <i>Physical Review A</i> , 2017, 95, .	1.0	2
23	Single-shot realization of nonadiabatic holonomic quantum gates in decoherence-free subspaces. <i>Physical Review A</i> , 2017, 95, .	1.0	58
24	Robust paths to realize nonadiabatic holonomic gates. <i>Physical Review A</i> , 2017, 95, .	1.0	24
25	Rydberg-atom-based scheme of nonadiabatic geometric quantum computation. <i>Physical Review A</i> , 2017, 96, .	1.0	80
26	Enhancing coherence of a state by stochastic strictly incoherent operations. <i>Physical Review A</i> , 2017, 96, .	1.0	26
27	Fast non-Abelian geometric gates via transitionless quantum driving. <i>Scientific Reports</i> , 2016, 5, 18414.	1.6	85
28	Alternative framework for quantifying coherence. <i>Physical Review A</i> , 2016, 94, .	1.0	127
29	Nonadiabatic geometric quantum computation in decoherence-free subspaces based on unconventional geometric phases. <i>Physical Review A</i> , 2016, 94, .	1.0	35
30	Ordering states with coherence measures. <i>Quantum Information Processing</i> , 2016, 15, 4189-4201.	1.0	27
31	General approach to find steady-state manifolds in Markovian and non-Markovian systems. <i>Physical Review A</i> , 2016, 94, .	1.0	4
32	Non-Markovian quantum dissipative processes with the same positive features as Markovian dissipative processes. <i>Physical Review A</i> , 2016, 93, .	1.0	5
33	Measure-independent freezing of quantum coherence. <i>Physical Review A</i> , 2016, 93, .	1.0	101
34	Nonadiabatic holonomic gates realized by a single-shot implementation. <i>Physical Review A</i> , 2015, 92, .	1.0	80
35	A proof of the Kochen-Specker theorem can always be converted to a state-independent noncontextuality inequality. <i>New Journal of Physics</i> , 2015, 17, 093001.	1.2	10
36	Theorem on the existence of a nonzero energy gap in adiabatic quantum computation. <i>Physical Review A</i> , 2014, 90, .	1.0	10

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37	Theoretical study of spectroscopic constants and anharmonic force field of formaldehyde. Journal of Theoretical and Computational Chemistry, 2014, 13, 1450049.	1.8	4
38	Quantum computation in noiseless subsystems with fast non-Abelian holonomies. Physical Review A, 2014, 89, .	1.0	70
39	Coexistence of Kochen-Specker inequalities and noncontextuality inequalities. Physical Review A, 2014, 89, .	1.0	10
40	Completely positive maps within the framework of direct-sum decomposition of state space. Physical Review A, 2014, 90, .	1.0	17
41	Dynamics of Geometric Measure of Quantum Discord of Two Qubits in Independent Reservoirs. Journal of the Physical Society of Japan, 2013, 82, 064002.	0.7	1
42	Robustness of nonadiabatic holonomic gates. Physical Review A, 2012, 86, .	1.0	106
43	Effect of preparation procedures on the system's entanglement evolution. European Physical Journal D, 2012, 66, 1.	0.6	6
44	Nonadiabatic Holonomic Quantum Computation in Decoherence-Free Subspaces. Physical Review Letters, 2012, 109, 170501.	2.9	220
45	Non-adiabatic holonomic quantum computation. New Journal of Physics, 2012, 14, 103035.	1.2	286
46	Effects of noisy quantum channels on one-qubit rotation gate. Science China: Physics, Mechanics and Astronomy, 2012, 55, 808-814.	2.0	7
47	Phase control of probe response in a Doppler-broadened $N$ -type four-level system. Physical Review A, 2011, 83, .	1.0	13
48	Tong Replies:. Physical Review Letters, 2011, 106, .	2.9	10
49	Separable states and geometric phases of an interacting two-spin system. Physical Review A, 2010, 81, .	1.0	8
50	The effect of the environment parameters on the geometric phase of a quantum dot system. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 305303.	0.7	3
51	Quantitative Condition is Necessary in Guaranteeing the Validity of the Adiabatic Approximation. Physical Review Letters, 2010, 104, 120401.	2.9	70
52	THERE EXIST DIFFERENT PROPOSALS FOR RELATIVISTIC TEMPERATURE TRANSFORMATION: THE WHYS AND WHEREFORES. Modern Physics Letters A, 2009, 24, 73-80.	0.5	21
53	Geometric phase of a quantum dot system in nonunitary evolution. Physical Review A, 2009, 79, .	1.0	25
54	Time evolution of few-cycle pulse in a dense V-type three-level medium. Journal of Modern Optics, 2008, 55, 2439-2448.	0.6	18

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55	Sufficiency Criterion for the Validity of the Adiabatic Approximation. Physical Review Letters, 2007, 98, 150402.	2.9	93
56	The hybrid quantum computer. Laser Physics, 2007, 17, 1085-1088.	0.6	0
57	Geometric phase in open systems: Beyond the Markov approximation and weak-coupling limit. Physical Review A, 2006, 73, .	1.0	38
58	Geometric phase for mixed states. Laser Physics, 2006, 16, 398-401.	0.6	2
59	Kraus representation for the density operator of a qubit. Laser Physics, 2006, 16, 1512-1516.	0.6	7
60	Investigation of transient process and steady output of lasing without inversion. Journal of Modern Optics, 2005, 52, 2127-2137.	0.6	5
61	Quantitative Conditions Do Not Guarantee the Validity of the Adiabatic Approximation. Physical Review Letters, 2005, 95, 110407.	2.9	120
62	Kinematic approach to off-diagonal geometric phases of nondegenerate and degenerate mixed states. Physical Review A, 2005, 71, .	1.0	13
63	Kinematic Approach to the Mixed State Geometric Phase in Nonunitary Evolution. Physical Review Letters, 2004, 93, 080405.	2.9	273
64	Operator-sum representation of time-dependent density operators and its applications. Physical Review A, 2004, 69, .	1.0	22
65	Geometric phases for nondegenerate and degenerate mixed states. Physical Review A, 2003, 67, .	1.0	103
66	Relation between geometric phases of entangled bipartite systems and their subsystems. Physical Review A, 2003, 68, .	1.0	43
67	General formalism of Hamiltonians for realizing a prescribed evolution of a qubit. Physical Review A, 2003, 68, .	1.0	2
68	General scheme for superdense coding between multiparties. Physical Review A, 2002, 65, .	1.0	408