Charis Anastopoulos

List of Publications by Year
in descending order

63 papers	**1,117** citations	394421 **19** h-index	434195 **31** g-index
64 all docs	**64** docs citations	**64** times ranked	**555** citing authors

#	Article	IF	Citations
1	A master equation for gravitational decoherence: probing the textures of spacetime. Classical and Quantum Gravity, 2013, 30, 165007.	4.0	99
2	Two-level atom-field interaction: Exact master equations for non-Markovian dynamics, decoherence, and relaxation. Physical Review A, 2000, 62, .	2.5	83
3	The rotating-wave approximation: consistency and applicability from an open quantum system analysis. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 405304.	2.1	66
4	Generalized uncertainty relations and long-time limits for quantum Brownian motion models. Physical Review D, 1995, 51, 6870-6885.	4.7	63
5	Probing a gravitational cat state. Classical and Quantum Gravity, 2015, 32, 165022.	4.0	63
6	Time-of-arrival probabilities and quantum measurements. Journal of Mathematical Physics, 2006, 47, 122106.	1.1	47
7	Time-of-arrival probabilities for general particle detectors. Physical Review A, 2012, 86, .	2.5	37
8	Quantum superposition of two gravitational cat states. Classical and Quantum Gravity, 2020, 37, 235012.	4.0	34
9	Intrinsic and fundamental decoherence: issues and problems. Classical and Quantum Gravity, 2008, 25, 154003.	4.0	33
10	Non-Markovian time evolution of an accelerated qubit. Physical Review D, 2017, 95, .	4.7	33
11	Equivalence principle for quantum systems: dephasing and phase shift of free-falling particles. Classical and Quantum Gravity, 2018, 35, 035011.	4.0	31
12	Non-Markovian entanglement dynamics of two qubits interacting with a common electromagnetic field. Quantum Information Processing, 2009, 8, 549-563.	2.2	28
13	Quantum theory of nonrelativistic particles interacting with gravity. Physical Review D, 1996, 54, 1600-1605.	4.7	27
14	Histories quantization of parameterized systems: I. Development of a general algorithm. Classical and Quantum Gravity, 2000, 17, 2463-2489.	4.0	21
15	Frequently Asked Questions About Decoherence. International Journal of Theoretical Physics, 2002, 41, 1573-1590.	1.2	21
16	Quantum processes on phase space. Annals of Physics, 2003, 303, 275-320.	2.8	21
17	Minisuperspace models in histories theory. Classical and Quantum Gravity, 2005, 22, 1841-1866.	4.0	21
18	Non-Markovian dynamics and entanglement of two-level atoms in a common field. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 065301.	2.1	19

#	ARTICLE	IF	CITATIONS
19	Time of arrival and localization of relativistic particles. Journal of Mathematical Physics, 2019, 60, 032301.	1.1	19
20	Continuous-time histories: Observables, probabilities, phase space structure and the classical limit. Journal of Mathematical Physics, 2001, 42, 3225-3259.	1.1	17
21	Gravitational effects in macroscopic quantum systems: a first-principles analysis. Classical and Quantum Gravity, 2021, 38, 155012.	4.0	17
22	Coarse grainings and irreversibility in quantum field theory. Physical Review D, 1997, 56, 1009-1020.	4.7	16
23	Time-of-arrival probabilities and quantum measurements. III. Decay of unstable states. Journal of Mathematical Physics, 2008, 49, 022103.	1.1	16
24	Classical Versus Quantum Probability in Sequential Measurements. Foundations of Physics, 2006, 36, 1601-1661.	1.3	15
25	Coherences of accelerated detectors and the local character of the Unruh effect. Journal of Mathematical Physics, 2012, 53, .	1.1	15
26	Time-of-arrival probabilities and quantum measurements. II. Application to tunneling times. Journal of Mathematical Physics, 2008, 49, 022101.	1.1	14
27	The thermodynamics of self-gravitating systems in equilibrium is holographic. Classical and Quantum Gravity, 2014, 31, 055003.	4.0	14
28	Time-of-arrival correlations. Physical Review A, 2017, 95, .	2.5	14
29	Quantum temporal probabilities in tunneling systems. Annals of Physics, 2013, 336, 281-308.	2.8	13
30	Relativistic quantum thermodynamics of moving systems. Physical Review D, 2020, 102, .	4.7	13
31	Decoherence and classical predictability of phase-space histories. Physical Review E, 1996, 53, 4711-4722.	2.1	11
32	Gravitational decoherence of photons. Classical and Quantum Gravity, 2021, 38, 115012.	4.0	11
33	Quantum Theory Without Hilbert Spaces. Foundations of Physics, 2001, 31, 1545-1580.	1.3	10
34	Quantum correlation functions and the classical limit. Physical Review D, 2001, 63, .	4.7	10
35	Quantum probabilities for time-extended alternatives. Journal of Mathematical Physics, 2007, 48, 032106.	1.1	10
36	Decays of Unstable Quantum Systems. International Journal of Theoretical Physics, 2019, 58, 890-930.	1.2	10

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37	The role of phase space geometry in Heisenberg's uncertainty relation. Annals of Physics, 2003, 308, 329-353.	2.8	9
38	On the relation between quantum mechanical probabilities and event frequencies. Annals of Physics, 2004, 313, 368-382.	2.8	9
39	Entropy of singularities in self-gravitating radiation. Classical and Quantum Gravity, 2012, 29, 025004.	4.0	9
40	Quantum Information in Relativity: The Challenge of QFT Measurements. Entropy, 2022, 24, 4.	2.2	9
41	Gravitational decoherence: A thematic overview. AVS Quantum Science, 2022, 4, .	4.9	8
42	Quantum Mechanical Histories and the Berry Phase. International Journal of Theoretical Physics, 2002, 41, 529-540.	1.2	7
43	The thermodynamics of a black hole in equilibrium implies the breakdown of Einstein equations on a macroscopic near-horizon shell. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
44	Preferred Consistent History Sets. International Journal of Theoretical Physics, 1998, 37, 2261-2272.	1.2	6
45	Consistent thermodynamics for spin echoes. Physical Review E, 2011, 83, 021118.	2.1	6
46	Real-time particle-detection probabilities in accelerated macroscopic detectors. General Relativity and Gravitation, 2015, 47, 1.	2.0	6
47	Classification theorem and properties of singular solutions to the Tolman–Oppenheimer–Volkoff equation. Classical and Quantum Gravity, 2021, 38, 075024.	4.0	6
48	Gravity, Quantum Fields and Quantum Information: Problems with Classical Channel and Stochastic Theories. Entropy, 2022, 24, 490.	2.2	6
49	Path of a tunneling particle. Physical Review A, 2017, 95, .	2.5	4
50	Detectors interacting through quantum fields: Non-Markovian effects, nonperturbative generation of correlations, and apparent noncausality. Physical Review A, 2020, 102, .	2.5	4
51	Goals and feasibility of the deep space quantum link. , 2021, , .		4
52	n-particle sector of field theory as a quantum open system. Physical Review D, 1997, 56, 6702-6705.	4.7	3
53	Multi-time measurements in Hawking radiation: information at higher-order correlations. Classical and Quantum Gravity, 2020, 37, 025015.	4.0	3
54	Quantum Versus Stochastic Processes and the Role of Complex Numbers. International Journal of Theoretical Physics, 2003, 42, 1229-1256.	1.2	2

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55	Generalized coherent states for spinning relativistic particles. Journal of Physics A, 2004, 37, 8619-8637.	1.6	2
56	SPIN-STATISTICS THEOREM AND GEOMETRIC QUANTIZATION. International Journal of Modern Physics A, 2004, 19, 655-676.	1.5	2
57	Gravitational backreaction in cosmological spacetimes. Physical Review D, 2009, 79, .	4.7	2
58	Thermodynamics and phase transitions of black holes in contact with a gravitating heat bath. Classical and Quantum Gravity, 2021, 38, 195026.	4.0	2
59	Classical Limit(s) of Quantum Field Theories. International Journal of Theoretical Physics, 1999, 38, 2721-2731.	1.2	0
60	Glafka 2004: Some Remarks on the Role of Complex Numbers in Quantum Theory. International Journal of Theoretical Physics, 2006, 45, 1483-1494.	1.2	0
61	Mindâ€"Body Interaction and Modern Physics. Foundations of Physics, 2021, 51, 1.	1.3	0
62	Quantum probabilities versus event frequencies. Brazilian Journal of Physics, 2005, 35, 503-508.	1.4	0
63	How black holes store information in high-order correlations. International Journal of Modern Physics D, 2020, 29, 2043011.	2.1	0