Eduardo Martin-Martinez

List of Publications by Year
in descending order

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Version: 2024-02-01

116	4,021	94415	138468
papers	citations	37	58
		h-index	g-index

116	116	116	984
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unruh effect in quantum information beyond the single-mode approximation. Physical Review A, 2010, 82, .	2.5	226
2	Harvesting correlations from the quantum vacuum. Physical Review D, 2015, 92, .	4.7	153
3	Fundamental quantum optics experiments conceivable with satellitesâ€"reaching relativistic distances and velocities. Classical and Quantum Gravity, 2012, 29, 224011.	4.0	131
4	Unveiling quantum entanglement degradation near a Schwarzschild black hole. Physical Review D, 2010, 82, .	4.7	126
5	Entanglement harvesting from the electromagnetic vacuum with hydrogenlike atoms. Physical Review D, 2016, 94, .	4.7	121
6	Wavepacket detection with the Unruh-DeWitt model. Physical Review D, 2013, 87, .	4.7	119
7	Entanglement of Dirac fields in an expanding spacetime. Physical Review D, 2010, 82, .	4.7	103
8	Spacetime structure and vacuum entanglement. Physical Review D, 2016, 93, .	4.7	101
9	Using Berryâ€™s Phase to Detect the Unruh Effect at Lower Accelerations. Physical Review Letters, 2011, 107, 131301.	7.8	99
10	Detectors for probing relativistic quantum physics beyond perturbation theory. Physical Review D, 2013, 87, .	4.7	91
11	Cosmological quantum entanglement. Classical and Quantum Gravity, 2012, 29, 224003.	4.0	87
12	Redistribution of particle and antiparticle entanglement in noninertial frames. Physical Review A, 2011, 83, .	2.5	81
13	Casimir forces on atoms in optical cavities. Physical Review A, 2014, 89, .	2.5	79
14	Sustainable entanglement production from a quantum field. Physical Review A, 2013, 88, .	2.5	74
15	Quantum correlations through event horizons: Fermionic versus bosonic entanglement. Physical Review A, 2010, 81, .	2.5	69
16	Causality issues of particle detector models in QFT and quantum optics. Physical Review D, 2015, 92, .	4.7	67
17	Information Transmission Without Energy Exchange. Physical Review Letters, 2015, 114, 110505.	7.8	62
18	Fermionic entanglement that survives a black hole. Physical Review A, 2009, 80, .	2.5	59

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19	Fermionic entanglement ambiguity in noninertial frames. Physical Review A, 2011, 83, .	2.5	58
20	Extracting Past-Future Vacuum Correlations Using Circuit QED. Physical Review Letters, 2012, 109, 033602.	7.8	58
21	Entanglement in curved spacetimes and cosmology. Classical and Quantum Gravity, 2014, 31, 214001.	4.0	57
22	Relativistic quantum optics: The relativistic invariance of the light-matter interaction models. Physical Review D, 2018, 97, .	4.7	56
23	Residual entanglement of accelerated fermions is not nonlocal. Physical Review A, 2011, 84, .	2.5	51
24	Unruh-DeWitt detectors and entanglement: The antiâ€“de Sitter space. Physical Review D, 2018, 98, .	4.7	50
25	General relativistic quantum optics: Finite-size particle detector models in curved spacetimes. Physical Review D, 2020, 101, .	4.7	49
26	Processing Quantum Information with Relativistic Motion of Atoms. Physical Review Letters, 2013, 110, 160501.	7.8	48
27	Violation of the Strong Huygenâ€™s Principle and Timelike Signals from the Early Universe. Physical Review Letters, 2015, 114, 141103.	7.8	48
28	Harvesting correlations from thermal and squeezed coherent states. Physical Review D, 2018, 98, .	4.7	48
29	Anti-Unruh phenomena. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 307-311.	4.1	46
30	Quantum delocalization, gauge, and quantum optics: Light-matter interaction in relativistic quantum information. Physical Review A, 2021, 103, .	2.5	46
31	Quantum signaling in cavity QED. Physical Review A, 2014, 89, .	2.5	44
32	Thermalization of particle detectors: The Unruh effect and its reverse. Physical Review D, 2016, 94, .	4.7	43
33	Renormalized Unruh-DeWitt particle detector models for boson and fermion fields. Physical Review D, 2016, 93, .	4.7	42
34	Localized projective measurement of a quantum field in non-inertial frames. Classical and Quantum Gravity, 2013, 30, 235006.	4.0	40
35	Unruh-DeWitt detector response along static and circular-geodesic trajectories for Schwarzschildâ€“anti-de Sitter black holes. Physical Review D, 2014, 90, .	4.7	39
36	Broken covariance of particle detector models in relativistic quantum information. Physical Review D, 2021, 103, .	4.7	38

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37	The entangling side of the Unruh-Hawking effect. Journal of High Energy Physics, 2011, 2011, 1.	4.7	37
38	General no-go theorem for entanglement extraction. Physical Review D, 2018, 97, .	4.7	36
39	Localized detection of quantum entanglement through the event horizon. Physical Review A, 2013, 87, .	2.5	35
40	Entanglement harvesting and divergences in quadratic Unruh-DeWitt detector pairs. Physical Review D, 2017, 96, .	4.7	35
41	Vanishing geometric discord in noninertial frames. Physical Review A, 2012, 86, .	2.5	33
42	Fermionic entanglement extinction in noninertial frames. Physical Review A, 2011, 84, .	2.5	32
43	Relativistic causality in particle detector models: Faster-than-light signaling and impossible measurements. Physical Review D, 2021, 103, .	4.7	32
44	A detector-based measurement theory for quantum field theory. Physical Review D, 2022, 105, .	4.7	31
45	Convergence of fermionic-field entanglement at infinite acceleration in relativistic quantum information. Physical Review A, 2012, 85, .	2.5	30
46	Population bound effects on bosonic correlations in noninertial frames. Physical Review A, 2010, 81, .	2.5	29
47	When entanglement harvesting is not really harvesting. Physical Review D, 2021, 104, .	4.7	29
48	Entanglement of arbitrary spin fields in noninertial frames. Physical Review A, 2011, 84, .	2.5	28
49	Nonperturbative analysis of entanglement harvesting from coherent field states. Physical Review D, 2017, 96, .	4.7	28
50	Universality and thermalization in the Unruh effect. Physical Review D, 2013, 88, .	4.7	27
51	Degenerate detectors are unable to harvest spacelike entanglement. Physical Review D, 2017, 95, .	4.7	27
52	New techniques for entanglement harvesting in flat and curved spacetimes. Physical Review D, 2018, 97, .	4.7	27
53	Communication through quantum fields near a black hole. Physical Review D, 2020, 101, .	4.7	27
54	Particle detectors and the zero mode of a quantum field. Physical Review D, 2014, 90, .	4.7	26

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55	Work Distributions on Quantum Fields. Physical Review Letters, 2019, 122, 240604.	7.8	26
56	Transmission of quantum information through quantum fields. Physical Review D, 2020, 101, .	4.7	26
57	Unruh Effect without Thermality. Physical Review Letters, 2019, 123, 041601.	7.8	25
58	Open dynamics under rapid repeated interaction. Physical Review A, 2016, 94, .	2.5	23
59	Timelike information broadcasting in cosmology. Physical Review D, 2016, 93, .	4.7	23
60	Simulating accelerated atoms coupled to a quantum field. Physical Review A, 2012, 85, .	2.5	22
61	Low energy signatures of nonlocal field theories. Physical Review D, 2016, 94, .	4.7	22
62	Transmitting qubits through relativistic fields. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 485301.	2.1	22
63	Quantum seismology. New Journal of Physics, 2014, 16, 105020.	2.9	21
64	Fundamental limitations to information transfer in accelerated frames. Physical Review A, 2012, 86, .	2.5	20
65	Echo of the quantum bounce. Physical Review D, 2014, 89, .	4.7	20
66	Reply to â€œComment on â€˜Fermionic entanglement ambiguity in noninertial framesâ€™ â€• Physical Review A, 2012, 85, .	2.5	17
67	Cavities in curved spacetimes: The response of particle detectors. Physical Review D, 2014, 89, .	4.7	17
68	Precise spaceâ€“time positioning for entanglement harvesting. New Journal of Physics, 2016, 18, 043031.	2.9	17
69	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mi mathvariant="bold-italic">p</mml:mi></mml:mrow><mml:mo stretchy="false">^</mml:mo></mml:mrow></mml:mover><mml:mo>Â·</mml:mo><mml:mover accent="true"><mml:mrow><mml:mi mathvariant="bold-italic">A</mml:mi></mml:mrow></mml:mover><mml:mo stretchy="false">^</mml:mo>	4.7	17
70	Faster-than-light signaling in the rotating-wave approximation. Physical Review D, 2019, 100, .	4.7	17
71	Universal scheme for indirect quantum control. Physical Review A, 2016, 93, .	2.5	16
72	Geometry of spacetime from quantum measurements. Physical Review D, 2022, 105, .	4.7	16

#	Article	IF	Citations
73	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow><mml:mi mathvariant="normal">D</mml:mi></mml:mrow></mml:math>Calculation Provides Evidence that Quantum Entanglement Survives a Firewall. Physical Review Letters, 2015, 115, 031301.	7.8	15
74	Perfect Zeno-like effect through imperfect measurements at a finite frequency. Physical Review A, 2015, 91, .	2.5	15
75	Over the horizon: Distinguishing the Schwarzschild spacetime and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="double-struck">R</mml:mi><mml:msup><mml:mi mathvariant="double-struck">P</mml:mi><mml:mn>3</mml:mn></mml:msup></mml:math> spacetime using an Unruh DeWitt detector. Physical Review D, 2017, 96, .	4.7	15
76	Correlation-Enhanced Algorithmic Cooling. Physical Review Letters, 2017, 119, 050502.	7.8	15
77	All coherent field states entangle equally. Physical Review D, 2017, 96, .	4.7	15
78	Fundamental Limitations to Local Energy Extraction in Quantum Systems. Physical Review Letters, 2019, 123, 190601.	7.8	15
79	Measurements in QFT: Weakly coupled local particle detectors and entanglement harvesting. Physical Review D, 2021, 104, .	4.7	15
80	Asymptotically limitless quantum energy teleportation via qudit probes. Physical Review A, 2016, 93, .	2.5	14
81	Antiparticle detector models in QFT. Physical Review D, 2021, 104, .	4.7	14
82	Harvesting entanglement from complex scalar and fermionic fields with linearly coupled particle detectors. Physical Review D, 2022, 105, .	4.7	14
83	Equivalence principle and QFT: Can a particle detector tell if we live inside a hollow shell?. Physical Review D, 2016, 94, .	4.7	13
84	Sabotaging the harvesting of correlations from quantum fields. Physical Review D, 2022, 105, .	4.7	13
85	Relativity and quantum optics: accelerated atoms in optical cavities. Classical and Quantum Gravity, 2018, 35, 224001.	4.0	12
86	Superadditivity of channel capacity through quantum fields. Physical Review D, 2020, 101, .	4.7	12
87	Information carrying capacity of a cosmological constant. Physical Review D, 2017, 95, .	4.7	11
88	Finite sizes and smooth cutoffs in superconducting circuits. Physical Review A, 2017, 96, .	2.5	11
89	Vacuum entanglement harvesting with a zero mode. Physical Review D, 2020, 101, .	4.7	11
90	What makes a particle detector click. Physical Review D, 2021, 103, .	4.7	11

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91	Engineering negative stress-energy densities with quantum energy teleportation. Physical Review D, 2017, 96, .	4.7	10
92	Direct measurement of the two-point function in quantum fields. Physical Review D, 2018, 98, .	4.7	10
93	Fluctuations of work cost in optimal generation of correlations. Physical Review E, 2018, 98, .	2.1	10
94	A classification of open Gaussian dynamics. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 245301.	2.1	10
95	First law of quantum field thermodynamics. Physical Review A, 2020, 102, .	2.5	10
96	Duality in the dynamics of Unruh-DeWitt detectors in conformally related spacetimes. Physical Review D, 2020, 101, .	4.7	9
97	Measuring motion through relativistic quantum effects. Physical Review A, 2014, 90, .	2.5	8
98	Zero mode suppression of superluminal signals in light-matter interactions. Physical Review D, 2019, 99, .	4.7	8
99	The Unruh Effect in Slow Motion. Symmetry, 2021, 13, 1977.	2.2	8
100	Dynamical Casimir effect in circuit QED for nonuniform trajectories. Physical Review A, 2016, 93, .	2.5	7
101	Purification in rapid-repeated-interaction systems. Physical Review A, 2017, 95, .	2.5	7
102	Gaussian ancillary bombardment. Physical Review A, 2018, 97, .	2.5	7
103	Mode invisibility and single-photon detection. Physical Review A, 2013, 88, .	2.5	6
104	Quantum gates via relativistic remote control. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 74-82.	4.1	6
105	Quantum Thermometry. Foundations of Physics, 2014, 44, 492-511.	1.3	5
106	Zeno friction and antifriction from quantum collision models. Physical Review A, 2019, 100, .	2.5	5
107	Mode invisibility as a quantum nondemolition measurement of coherent light. Physical Review A, 2014, 90, .	2.5	4
108	Certified randomness from a two-level system in a relativistic quantum field. Physical Review A, 2016, 94, .	2.5	4

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109	Transmission of information in nonlocal field theories. Physical Review D, 2017, 96, .	4.7	4
110	Light, matter, and quantum randomness generation: A relativistic quantum information perspective. Optics Communications, 2018, 423, 29-47.	2.1	4
111	Casimir forces and quantum friction of finite-size atoms in relativistic trajectories. Physical Review A, 2018, 98, .	2.5	4
112	A classification of Markovian fermionic Gaussian master equations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 435302.	2.1	4
113	The time travelerâ€™s guide to the quantization of zero modes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
114	Particle detectors, cavities, and the weak equivalence principle. Physical Review D, 2018, 98, .	4.7	1
115	Thermal contact: mischief and time scales. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 395305.	2.1	1
116	Dimensional reduction of cavities with axial symmetry: A complete analysis of when an optical fiber is approximately one dimensional. Physical Review A, 2021, 104, .	2.5	1