

# Magdalena A Zych

## List of Publications by Year in descending order

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35  
papers

1,171  
citations

471477

17  
h-index

526264

27  
g-index

36  
all docs

36  
docs citations

36  
times ranked

781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal decoherence due to gravitational time dilation. Nature Physics, 2015, 11, 668-672.	16.7	187
2	Quantum interferometric visibility as a witness of general relativistic proper time. Nature Communications, 2011, 2, 505.	12.8	159
3	Quantum test of the equivalence principle for atoms in coherent superposition of internal energy states. Nature Communications, 2017, 8, 15529.	12.8	149
4	Bell's theorem for temporal order. Nature Communications, 2019, 10, 3772.	12.8	86
5	Quantum formulation of the Einstein equivalence principle. Nature Physics, 2018, 14, 1027-1031.	16.7	74
6	General relativistic effects in quantum interference of photons. Classical and Quantum Gravity, 2012, 29, 224010.	4.0	69
7	Time dilation in quantum systems and decoherence. New Journal of Physics, 2017, 19, 025011.	2.9	45
8	Generalization of the Margolus-Levitin bound. Physical Review A, 2006, 74, .	2.5	43
9	Quantum Temporal Superposition: The Case of Quantum Field Theory. Physical Review Letters, 2020, 125, 131602.	7.8	32
10	Gravity is not a pairwise local classical channel. Classical and Quantum Gravity, 2018, 35, 145005.	4.0	31
11	Unitarity, feedback, interactions' dynamics emergent from repeated measurements. New Journal of Physics, 2017, 19, 013035.	2.9	29
12	Elementary proof of the bound on the speed of quantum evolution. Physical Review A, 2006, 73, .	2.5	26
13	Interference of clocks: A quantum twin paradox. Science Advances, 2019, 5, eaax8966.	10.3	24
14	Entanglement amplification between superposed detectors in flat and curved spacetimes. Physical Review D, 2021, 103, .	4.7	24
15	Experimental entanglement of temporal order. Quantum - the Open Journal for Quantum Science, 0, 6, 621.	0.0	24
16	Unruh-deWitt detectors in quantum superpositions of trajectories. Physical Review D, 2020, 102, .	4.7	23
17	Quantum Systems under Gravitational Time Dilation. Springer Theses, 2017, , .	0.1	21
18	Gravitational mass of composite systems. Physical Review D, 2019, 99, .	4.7	21

#	ARTICLE	IF	CITATIONS
19	General relativistic effects in quantum interference of "clocks". Journal of Physics: Conference Series, 2016, 723, 012044.	0.4	20
20	Single electron relativistic clock interferometer. New Journal of Physics, 2016, 18, 093050.	2.9	17
21	Reversible time travel with freedom of choice. Classical and Quantum Gravity, 2019, 36, 224002.	4.0	13
22	Entanglement between smeared field operators in the Klein-Gordon vacuum. Physical Review D, 2010, 81, .	4.7	12
23	Schrödinger's cat for de Sitter spacetime. Classical and Quantum Gravity, 2021, 38, 115010.	4.0	12
24	Generating multi-partite entanglement from the quantum vacuum with a finite-lifetime mirror. New Journal of Physics, 2020, 22, 083075.	2.9	9
25	Nanomechanical test of quantum linearity. Optica, 2020, 7, 1427.	9.3	9
26	Thermality, causality, and the quantum-controlled Unruh-deWitt detector. Physical Review Research, 2021, 3, .	3.6	6
27	Reply to 'Questioning universal decoherence due to gravitational time dilation'. Nature Physics, 2016, 12, 2-3.	16.7	4
28	Composite particles with minimum uncertainty in spacetime. Physical Review Research, 2021, 3, .	3.6	2
29	Interference of "Clocks" Experimental Proposals. Springer Theses, 2017, , 47-69.	0.1	0
30	Experimental Violation of Bell's Inequality for Temporal Orders. , 2019, , .		0
31	Effect of environment on the interferometry of clocks. Quantum - the Open Journal for Quantum Science, 0, 5, 525.	0.0	0
32	Decoherence from Time Dilation. Springer Theses, 2017, , 71-79.	0.1	0
33	Clocks Beyond Classical Space-Time. Springer Theses, 2017, , 99-114.	0.1	0
34	Quantum Formulation of the Einstein Equivalence Principle. Springer Theses, 2017, , 81-97.	0.1	0
35	Telefilters, telemirrors, and causality. Physical Review A, 2022, 105, .	2.5	0