

# Igor Pikovski

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

2,326  
citations

430754

18  
h-index

501076

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Limits on inference of gravitational entanglement. <i>Physical Review Research</i> , 2022, 4, .	1.3	8
2	Optimal fidelity witnesses for gravitational entanglement. <i>Physical Review A</i> , 2022, 105, .	1.0	5
3	Many-body probes for quantum features of spacetime. <i>AVS Quantum Science</i> , 2022, 4, 021402.	1.8	0
4	The missing link in gravitational-wave astronomy. <i>Experimental Astronomy</i> , 2021, 51, 1427-1440.	1.6	15
5	Do Gedanken experiments compel quantization of gravity?. <i>Physical Review D</i> , 2021, 104, .	1.6	14
6	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	0.7	198
7	Generating mechanical and optomechanical entanglement via pulsed interaction and measurement. <i>New Journal of Physics</i> , 2020, 22, 063001.	1.2	16
8	Quantum metasurfaces with atom arrays. <i>Nature Physics</i> , 2020, 16, 676-681.	6.5	98
9	The missing link in gravitational-wave astronomy: discoveries waiting in the decihertz range. <i>Classical and Quantum Gravity</i> , 2020, 37, 215011.	1.5	90
10	Bell's theorem for temporal order. <i>Nature Communications</i> , 2019, 10, 3772.	5.8	86
11	Gravitational mass of composite systems. <i>Physical Review D</i> , 2019, 99, .	1.6	21
12	Time dilation in quantum systems and decoherence. <i>New Journal of Physics</i> , 2017, 19, 025011.	1.2	45
13	Amplified transduction of Planck-scale effects using quantum optics. <i>Physical Review A</i> , 2017, 96, .	1.0	38
14	Detecting continuous gravitational waves with superfluid <sup>4</sup> He. <i>New Journal of Physics</i> , 2017, 19, 073023.	1.2	25
15	General relativistic effects in quantum interference of "clocks". <i>Journal of Physics: Conference Series</i> , 2016, 723, 012044.	0.3	20
16	Gravitational wave detection with optical lattice atomic clocks. <i>Physical Review D</i> , 2016, 94, .	1.6	242
17	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016, 3, .	2.9	77
18	Probing anharmonicity of a quantum oscillator in an optomechanical cavity. <i>Physical Review A</i> , 2016, 93, .	1.0	25

#	ARTICLE	IF	CITATIONS
19	Quantum and classical phases in optomechanics. <i>Physical Review A</i> , 2016, 93, .	1.0	14
20	Quantum coherent oscillations in the early universe. <i>Physical Review D</i> , 2016, 93, .	1.6	2
21	Reply to 'Questioning universal decoherence due to gravitational time dilation'. <i>Nature Physics</i> , 2016, 12, 2-3.	6.5	4
22	Towards optomechanical quantum state reconstruction of mechanical motion. <i>Annalen Der Physik</i> , 2015, 527, 15-26.	0.9	46
23	Universal decoherence due to gravitational time dilation. <i>Nature Physics</i> , 2015, 11, 668-672.	6.5	187
24	General relativistic effects in quantum interference of photons. <i>Classical and Quantum Gravity</i> , 2012, 29, 224010.	1.5	69
25	Ein quantenoptischer Blick auf die Planck-Skala?. <i>Physik in Unserer Zeit</i> , 2012, 43, 163-164.	0.0	0
26	Probing Planck-scale physics with quantum optics. <i>Nature Physics</i> , 2012, 8, 393-397.	6.5	473
27	Pulsed quantum optomechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16182-16187.	3.3	231
28	Quantum interferometric visibility as a witness of general relativistic proper time. <i>Nature Communications</i> , 2011, 2, 505.	5.8	159
29	Creating and verifying a quantum superposition in a micro-optomechanical system. <i>New Journal of Physics</i> , 2008, 10, 095020.	1.2	116