Leonid Prokhorov

List of Publications by Year
in descending order

19	2,219	1163117 8	996975 15
papers	citations	h-index	g-index

19	19	19	3733
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619.	31.4	825
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
3	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
4	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
5	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102.	7.8	24
6	Quantum correlation measurements in interferometric gravitational-wave detectors. Physical Review A, 2017, 95, .	2.5	16
7	Space charge polarization in fused silica test masses of a gravitational wave detector associated with an electrostatic drive. Classical and Quantum Gravity, 2010, 27, 225014.	4.0	9
8	The road to the discovery of gravitational waves. Physics-Uspekhi, 2016, 59, 879-885.	2.2	9
9	A six degree-of-freedom fused silica seismometer: designÂand tests of a metal prototype. Classical and Quantum Gravity, 2022, 39, 015006.	4.0	9
10	Effects of transients in LIGO suspensions on searches for gravitational waves. Review of Scientific Instruments, 2017, 88, 124501.	1.3	6
11	Mechanical losses of oscillators fabricated in silicon wafers. Classical and Quantum Gravity, 2015, 32, 195002.	4.0	4
12	An interferometric sensor for measuring small oscillations of torsional oscillators. Instruments and Experimental Techniques, 2013, 56, 215-218.	0.5	3
13	Measurement of mechanical loss in the Acktar Black coating of silicon wafers. Classical and Quantum Gravity, 2016, 33, 185002.	4.0	2
14	Measurement of mechanical losses in the carbon nanotube black coating of silicon wafers. Classical and Quantum Gravity, 2020, 37, 015004.	4.0	2
15	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
16	Using silicon disk resonators to measure mechanical losses caused by an electric field. Review of Scientific Instruments, 2022, 93, 014501.	1.3	1
17	Evolution of the charge distribution on the surface of fused silica. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1196-1198.	0.6	0
18	MEASUREMENTS OF ELECTRICAL CHARGE DISTRIBUTION VARIATIONS ON FUSED SILICA. , 2008, , .		0

#	Article	IF	Citations
19	Measurement of fluctuations of electrostatic force acting between a dielectric plate and an electrostatic drive. Review of Scientific Instruments, 2017, 88, 044701.	1.3	0