Denis V Martynov

List of Publications by Year
in descending order

24 papers	2,463 citations	516710 16 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	3741 citing authors

#	Article	IF	Citations
1	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
2	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
3	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107.	7.8	359
4	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
5	Observation of Parametric Instability in Advanced LIGO. Physical Review Letters, 2015, 114, 161102.	7.8	87
6	Exploring the sensitivity of gravitational wave detectors to neutron star physics. Physical Review D, 2019, 99, .	4.7	78
7	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
8	Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336.	12.6	59
9	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
10	Prospects for Detecting Gravitational Waves at 5ÂHz with Ground-Based Detectors. Physical Review Letters, 2018, 120, 141102.	7.8	47
11	Towards the design of gravitational-wave detectors for probing neutron-star physics. Physical Review D, 2018, 98, .	4.7	42
12	Quantum correlations of light mediated by gravity. Physical Review A, 2020, 101, .	2.5	34
13	A 6D interferometric inertial isolation system. Classical and Quantum Gravity, 2019, 36, 245006.	4.0	25
14	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102.	7.8	24
15	Testing Gravitational Memory Generation with Compact Binary Mergers. Physical Review Letters, 2018, 121, 071102.	7.8	24
16	Quantum-enhanced interferometry for axion searches. Physical Review D, 2020, 101, .	4.7	17
17	Gravitationally induced phase shift on a single photon. New Journal of Physics, 2017, 19, 033028.	2.9	16
18	Quantum correlation measurements in interferometric gravitational-wave detectors. Physical Review A, 2017, 95, .	2.5	16

#	Article	IF	Citations
19	Passive optical gyroscope with double homodyne readout. Optics Letters, 2019, 44, 1584.	3.3	16
20	Converting the signal-recycling cavity into an unstable optomechanical filter to enhance the detection bandwidth of gravitational-wave detectors. Physical Review D, 2019, 99, .	4.7	15
21	A six degree-of-freedom fused silica seismometer: designÂand tests of a metal prototype. Classical and Quantum Gravity, 2022, 39, 015006.	4.0	9
22	Enhancing interferometer sensitivity without sacrificing bandwidth and stability: Beyond single-mode and resolved-sideband approximation. Physical Review D, 2021, 103, .	4.7	8
23	Effects of transients in LIGO suspensions on searches for gravitational waves. Review of Scientific Instruments, 2017, 88, 124501.	1.3	6
24	Two-Carrier Scheme: Evading the 3ÂdB Quantum Penalty of Heterodyne Readout in Gravitational-Wave Detectors. Physical Review Letters, 2021, 126, 221301.	7.8	0