Derek Davis

List of Publications by Year
in descending order

23 papers	6,828 citations	361045 20 h-index	642321 23 g-index
23 all docs	23 docs citations	23 times ranked	5208 citing authors

#	Article	IF	Citations
1	Detector Characterization and Mitigation of Noise in Ground-Based Gravitational-Wave Interferometers. Galaxies, 2022, 10, 12.	1.1	10
2	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
3	Science-driven Tunable Design of Cosmic Explorer Detectors. Astrophysical Journal, 2022, 931, 22.	1.6	27
4	Impact of noise transients on low latency gravitational-wave event localization. Physical Review D, 2022, 105, .	1.6	12
5	Reducing scattered light in LIGOâ€™s third observing run. Classical and Quantum Gravity, 2021, 38, 025016.	1.5	49
6	LIGO detector characterization in the second and third observing runs. Classical and Quantum Gravity, 2021, 38, 135014.	1.5	128
7	Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336.	6.0	59
8	Environmental noise in advanced LIGO detectors. Classical and Quantum Gravity, 2021, 38, 145001.	1.5	38
9	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. Physical Review D, 2020, 102, .	1.6	196
10	Utilizing aLIGO glitch classifications to validate gravitational-wave candidates. Classical and Quantum Gravity, 2020, 37, 145001.	1.5	27
11	Improving the robustness of the advanced LIGO detectors to earthquakes. Classical and Quantum Gravity, 2020, 37, 235007.	1.5	11
12	Blip glitches in Advanced LIGO data. Classical and Quantum Gravity, 2019, 36, 155010.	1.5	84
13	Improving the sensitivity of Advanced LIGO using noise subtraction. Classical and Quantum Gravity, 2019, 36, 055011.	1.5	69
14	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107.	2.9	359
15	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	8.2	808
16	Rapid detection of gravitational waves from compact binary mergers with PyCBC Live. Physical Review D, 2018, 98, .	1.6	87
17	Constraints on cosmic strings using data from the first Advanced LIGO observing run. Physical Review D, 2018, 97, .	1.6	88
18	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. Physical Review D, 2017, 95, .	1.6	69

#	Article	IF	Citations
19	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	2.9	1,600
20	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. Physical Review D, 2017, 96, .	1.6	73
21	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101.	2.9	1,987
22	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. Physical Review D, 2017, 95, .	1.6	59
23	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	3.0	968