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	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
2	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	2.9	1,600
3	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	3.0	968
4	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
5	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107.	2.9	359
6	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. Physical Review D, 2020, 102, .	1.6	196
7	LIGO detector characterization in the second and third observing runs. Classical and Quantum Gravity, 2021, 38, 135014.	1.5	128
8	Constraints on cosmic strings using data from the first Advanced LIGO observing run. Physical Review D, 2018, 97, .	1.6	88
9	Rapid detection of gravitational waves from compact binary mergers with PyCBC Live. Physical Review D, 2018, 98, .	1.6	87
10	Blip glitches in Advanced LIGO data. Classical and Quantum Gravity, 2019, 36, 155010.	1.5	84
11	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. Physical Review D, 2017, 96, .	1.6	73
12	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. Physical Review D, 2017, 95, .	1.6	69
13	Improving the sensitivity of Advanced LIGO using noise subtraction. Classical and Quantum Gravity, 2019, 36, 055011.	1.5	69
14	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
15	Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336.	6.0	59
16	Reducing scattered light in LIGOâ€™s third observing run. Classical and Quantum Gravity, 2021, 38, 025016.	1.5	49
17	Environmental noise in advanced LIGO detectors. Classical and Quantum Gravity, 2021, 38, 145001.	1.5	38
18	Utilizing aLIGO glitch classifications to validate gravitational-wave candidates. Classical and Quantum Gravity, 2020, 37, 145001.	1.5	27

#	Article	IF	Citations
19	Science-driven Tunable Design of Cosmic Explorer Detectors. Astrophysical Journal, 2022, 931, 22.	1.6	27
20	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
21	Impact of noise transients on low latency gravitational-wave event localization. Physical Review D, 2022, 105, .	1.6	12
22	Improving the robustness of the advanced LIGO detectors to earthquakes. Classical and Quantum Gravity, 2020, 37, 235007.	1.5	11
23	Detector Characterization and Mitigation of Noise in Ground-Based Gravitational-Wave Interferometers. Galaxies, 2022, 10, 12.	1.1	10