

# Derek Davis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/296909/publications.pdf>

Version: 2024-02-01

23  
papers

6,828  
citations

361413

20  
h-index

642732

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. <i>Physical Review Letters</i> , 2017, 118, 221101.	7.8	1,987
2	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101.	7.8	1,600
3	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35.	8.3	968
4	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	26.7	808
5	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. <i>Physical Review Letters</i> , 2019, 123, 231107.	7.8	359
6	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. <i>Physical Review D</i> , 2020, 102, .	4.7	196
7	LIGO detector characterization in the second and third observing runs. <i>Classical and Quantum Gravity</i> , 2021, 38, 135014.	4.0	128
8	Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018, 97, .	4.7	88
9	Rapid detection of gravitational waves from compact binary mergers with PyCBC Live. <i>Physical Review D</i> , 2018, 98, .	4.7	87
10	Blip glitches in Advanced LIGO data. <i>Classical and Quantum Gravity</i> , 2019, 36, 155010.	4.0	84
11	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , 2017, 96, .	4.7	73
12	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , 2017, 95, .	4.7	69
13	Improving the sensitivity of Advanced LIGO using noise subtraction. <i>Classical and Quantum Gravity</i> , 2019, 36, 055011.	4.0	69
14	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017, 95, .	4.7	59
15	Approaching the motional ground state of a 10-kg object. <i>Science</i> , 2021, 372, 1333-1336.	12.6	59
16	Reducing scattered light in LIGO's third observing run. <i>Classical and Quantum Gravity</i> , 2021, 38, 025016.	4.0	49
17	Environmental noise in advanced LIGO detectors. <i>Classical and Quantum Gravity</i> , 2021, 38, 145001.	4.0	38
18	Utilizing aLIGO glitch classifications to validate gravitational-wave candidates. <i>Classical and Quantum Gravity</i> , 2020, 37, 145001.	4.0	27

#	ARTICLE	IF	CITATIONS
19	Science-driven Tunable Design of Cosmic Explorer Detectors. <i>Astrophysical Journal</i> , 2022, 931, 22.	4.5	27
20	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
21	Impact of noise transients on low latency gravitational-wave event localization. <i>Physical Review D</i> , 2022, 105, .	4.7	12
22	Improving the robustness of the advanced LIGO detectors to earthquakes. <i>Classical and Quantum Gravity</i> , 2020, 37, 235007.	4.0	11
23	Detector Characterization and Mitigation of Noise in Ground-Based Gravitational-Wave Interferometers. <i>Galaxies</i> , 2022, 10, 12.	3.0	10