Evan Goetz

List of Publications by Year
in descending order

52 papers	7,864 citations	81743 39 h-index	174990 52 g-index
52 all docs	52 docs citations	52 times ranked	5099 citing authors

#	Article	IF	Citations
1	Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001.	1.5	1,929
2	LIGO: the Laser Interferometer Gravitational-Wave Observatory. Reports on Progress in Physics, 2009, 72, 076901.	8.1	971
3	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
4	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107.	2.9	359
5	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	1.5	225
6	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. Physical Review D, 2020, 102, .	1.6	196
7	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. Astrophysical Journal, 2008, 683, L45-L49.	1.6	160
8	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685.	1.6	155
9	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	1.6	144
10	Implications for the Origin of GRB 070201 from LIGO Observations. Astrophysical Journal, 2008, 681, 1419-1430.	1.6	143
11	Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run. Physical Review D, 2007, 76, .	1.6	128
12	LIGO detector characterization in the second and third observing runs. Classical and Quantum Gravity, 2021, 38, 135014.	1.5	128
13	Observation of a kilogram-scale oscillator near its quantum ground state. New Journal of Physics, 2009, 11, 073032.	1.2	123
14	Upper limits on gravitational wave emission from 78 radio pulsars. Physical Review D, 2007, 76, .	1.6	121
15	Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. Astrophysical Journal, 2007, 659, 918-930.	1.6	120
16	Calibration of the LIGO gravitational wave detectors in the fifth science run. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 223-240.	0.7	120
17	All-sky search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2008, 77, .	1.6	110
18	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. Physical Review D, 2010, 81, .	1.6	107

#	Article	IF	Citations
19	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513.	1.6	104
20	Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO. Physical Review D, 2018, 97, .	1.6	104
21	Characterization of systematic error in Advanced LIGO calibration. Classical and Quantum Gravity, 2020, 37, 225008.	1.5	98
22	Calibration uncertainty for Advanced LIGOâ€™s first and second observing runs. Physical Review D, 2017, 96, .	1.6	97
23	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102.	2.9	94
24	Upper limit map of a background of gravitational waves. Physical Review D, 2007, 76, .	1.6	90
25	Blip glitches in Advanced LIGO data. Classical and Quantum Gravity, 2019, 36, 155010.	1.5	84
26	All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. Physical Review Letters, 2009, 102, 111102.	2.9	83
27	Einstein@Home search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2009, 79, .	1.6	83
28	Search for gravitational-wave bursts in LIGO data from the fourth science run. Classical and Quantum Gravity, 2007, 24, 5343-5369.	1.5	78
29	Einstein@Home search for periodic gravitational waves in early S5 LIGO data. Physical Review D, 2009, 80, .	1.6	78
30	Searching for gravitational waves from Cassiopeia A with LIGO. Classical and Quantum Gravity, 2008, 25, 235011.	1.5	75
31	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. Physical Review D, 2017, 95, .	1.6	72
32	The Advanced LIGO photon calibrators. Review of Scientific Instruments, 2016, 87, 114503.	0.6	65
33	Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336.	6.0	59
34	Reconstructing the calibrated strain signal in the Advanced LIGO detectors. Classical and Quantum Gravity, 2018, 35, 095015.	1.5	57
35	Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals. Physical Review D, 2008, 78, .	1.6	54
36	Search for gravitational wave radiation associated with the pulsating tail of the SGR<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1806</mml:mn><mml:mo>â^’</mml:mo><mml:mn>20</mml:mn></mml:math>hyperflare of 27 December 2004 using LIGO. Physical Review D, 2007, 76, .	1.6	51

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37	Validating gravitational-wave detections: The Advanced LIGO hardware injection system. Physical Review D, 2017, 95, .	1.6	45
38	Gravitational waves from Scorpius X-1: A comparison of search methods and prospects for detection with advanced detectors. Physical Review D, 2015, 92, .	1.6	44
39	An all-sky search algorithm for continuous gravitational waves from spinning neutron stars in binary systems. Classical and Quantum Gravity, 2011, 28, 215006.	1.5	42
40	Environmental noise in advanced LIGO detectors. Classical and Quantum Gravity, 2021, 38, 145001.	1.5	38
41	Fermiology and superconductivity studies on the non-tetrachalcogenafulvalene-structured organic superconductor Î²-(BDAâˆ’TTP)2SbF6. Physical Review B, 2003, 67, .	1.1	29
42	Precise calibration of LIGO test mass actuators using photon radiation pressure. Classical and Quantum Gravity, 2009, 26, 245011.	1.5	29
43	Searches for continuous gravitational waves from Scorpius X-1 and XTE J1751-305 in LIGOâ€™s sixth science run. Physical Review D, 2017, 95, .	1.6	27
44	Physical approach to the marginalization of LIGO calibration uncertainties. Physical Review D, 2021, 103, .	1.6	27
45	Improving LIGO calibration accuracy by tracking and compensating for slow temporal variations. Classical and Quantum Gravity, 2017, 34, 015002.	1.5	25
46	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
47	LIGOâ€™s quantum response to squeezed states. Physical Review D, 2021, 104, .	1.6	19
48	Tuning into Scorpius X-1: adapting a continuous gravitational-wave search for a known binary system. Classical and Quantum Gravity, 2016, 33, 105017.	1.5	16
49	Accurate calibration of test mass displacement in the LIGO interferometers. Classical and Quantum Gravity, 2010, 27, 084024.	1.5	12
50	Coherently combining data between detectors for all-sky semi-coherent continuous gravitational wave searches. Classical and Quantum Gravity, 2016, 33, 085007.	1.5	7
51	Calibration of the LIGO displacement actuators via laser frequency modulation. Classical and Quantum Gravity, 2010, 27, 215001.	1.5	6
52	Accurate measurement of the time delay in the response of the LIGO gravitational wave detectors. Classical and Quantum Gravity, 2009, 26, 055010.	1.5	5