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	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
2	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
3	Physical approach to the marginalization of LIGO calibration uncertainties. Physical Review D, 2021, 103, .	1.6	27
4	LIGO detector characterization in the second and third observing runs. Classical and Quantum Gravity, 2021, 38, 135014.	1.5	128
5	Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336.	6.0	59
6	Environmental noise in advanced LIGO detectors. Classical and Quantum Gravity, 2021, 38, 145001.	1.5	38
7	LIGOâ€™s quantum response to squeezed states. Physical Review D, 2021, 104, .	1.6	19
8	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. Physical Review D, 2020, 102, .	1.6	196
9	Characterization of systematic error in Advanced LIGO calibration. Classical and Quantum Gravity, 2020, 37, 225008.	1.5	98
10	Blip glitches in Advanced LIGO data. Classical and Quantum Gravity, 2019, 36, 155010.	1.5	84
11	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107.	2.9	359
12	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
13	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
14	Reconstructing the calibrated strain signal in the Advanced LIGO detectors. Classical and Quantum Gravity, 2018, 35, 095015.	1.5	57
15	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. Physical Review D, 2017, 95, .	1.6	72
16	Improving LIGO calibration accuracy by tracking and compensating for slow temporal variations. Classical and Quantum Gravity, 2017, 34, 015002.	1.5	25
17	Validating gravitational-wave detections: The Advanced LIGO hardware injection system. Physical Review D, 2017, 95, .	1.6	45
18	Calibration uncertainty for Advanced LIGOâ€™s first and second observing runs. Physical Review D, 2017, 96, .	1.6	97

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19	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
20	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
21	Coherently combining data between detectors for all-sky semi-coherent continuous gravitational wave searches. Classical and Quantum Gravity, 2016, 33, 085007.	1.5	7
22	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	1.5	225
23	The Advanced LIGO photon calibrators. Review of Scientific Instruments, 2016, 87, 114503.	0.6	65
24	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
25	Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001.	1.5	1,929
26	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
27	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102.	2.9	94
28	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513.	1.6	104
29	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
30	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685.	1.6	155
31	Calibration of the LIGO displacement actuators via laser frequency modulation. Classical and Quantum Gravity, 2010, 27, 215001.	1.5	6
32	Accurate calibration of test mass displacement in the LIGO interferometers. Classical and Quantum Gravity, 2010, 27, 084024.	1.5	12
33	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. Physical Review D, 2010, 81, .	1.6	107
34	All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. Physical Review Letters, 2009, 102, 111102.	2.9	83
35	Precise calibration of LIGO test mass actuators using photon radiation pressure. Classical and Quantum Gravity, 2009, 26, 245011.	1.5	29
36	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

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37	Observation of a kilogram-scale oscillator near its quantum ground state. New Journal of Physics, 2009, 11, 073032.	1.2	123
38	Einstein@Home search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2009, 79, .	1.6	83
39	LIGO: the Laser Interferometer Gravitational-Wave Observatory. Reports on Progress in Physics, 2009, 72, 076901.	8.1	971
40	Einstein@Home search for periodic gravitational waves in early S5 LIGO data. Physical Review D, 2009, 80, .	1.6	78
41	All-sky search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2008, 77, .	1.6	110
42	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
43	Searching for gravitational waves from Cassiopeia A with LIGO. Classical and Quantum Gravity, 2008, 25, 235011.	1.5	75
44	Implications for the Origin of GRB 070201 from LIGO Observations. Astrophysical Journal, 2008, 681, 1419-1430.	1.6	143
45	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. Astrophysical Journal, 2008, 683, L45-L49.	1.6	160
46	Search for gravitational-wave bursts in LIGO data from the fourth science run. Classical and Quantum Gravity, 2007, 24, 5343-5369.	1.5	78
47	Upper limits on gravitational wave emission from 78 radio pulsars. Physical Review D, 2007, 76, .	1.6	121
48	Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. Astrophysical Journal, 2007, 659, 918-930.	1.6	120
49	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
50	Upper limit map of a background of gravitational waves. Physical Review D, 2007, 76, .	1.6	90
51	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
52	Fermiology and superconductivity studies on the non-tetrachalcogenafulvalene-structured organic superconductor Î²-(BDAâ^’TTP)2SbF6. Physical Review B, 2003, 67, .	1.1	29