

John Whelan

List of Publications by Year in descending order

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26
papers

3,921
citations

430442

18
h-index

642321

23
g-index

26
all docs

26
docs citations

26
times ranked

4727
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013, 7, 613-619.	15.6	825
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	8.2	808
3	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	8.2	447
4	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	8.2	427
5	Template bank for gravitational waveforms from coalescing binary black holes: Nonspinning binaries. <i>Physical Review D</i> , 2008, 77, .	1.6	318
6	A phenomenological template family for black-hole coalescence waveforms. <i>Classical and Quantum Gravity</i> , 2007, 24, S689-S699.	1.5	242
7	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225
8	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	1.6	144
9	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , 2010, 715, 1453-1461.	1.6	90
10	Searching for gravitational waves from Cassiopeia A with LIGO. <i>Classical and Quantum Gravity</i> , 2008, 25, 235011.	1.5	75
11	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	0.9	69
12	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017, 841, 89.	1.6	52
13	High-frequency corrections to the detector response and their effect on searches for gravitational waves. <i>Classical and Quantum Gravity</i> , 2008, 25, 184017.	1.5	40
14	Report on the first round of the Mock LISA Data Challenges. <i>Classical and Quantum Gravity</i> , 2007, 24, S529-S539.	1.5	33
15	Designing a cross-correlation search for continuous-wave gravitational radiation from a neutron star in the supernova remnant SNR 1987A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2650-2663.	1.6	26
16	Tidal Interaction in Binary-Black-Hole Inspiral. <i>Physical Review Letters</i> , 2001, 87, 231101.	2.9	24
17	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	1.8	20
18	Treatment of calibration uncertainty in multi-baseline cross-correlation searches for gravitational waves. <i>Journal of Physics: Conference Series</i> , 2014, 484, 012027.	0.3	18

#	ARTICLE	IF	CITATIONS
19	OctApps: a library of Octave functions for continuous gravitational-wave data analysis. Journal of Open Source Software, 2018, 3, 707.	2.0	11
20	Towards the first search for a stochastic background in LIGO data: applications of signal simulations. Classical and Quantum Gravity, 2003, 20, S677-S687.	1.5	8
21	An analytic approximation to the Bayesian detection statistic for continuous gravitational waves. Classical and Quantum Gravity, 2019, 36, 015013.	1.5	7
22	Template lattices for a cross-correlation search for gravitational waves from Scorpius X-1. Classical and Quantum Gravity, 2022, 39, 075013.	1.5	6
23	Gravitational waves: search results, data analysis and parameter estimation. General Relativity and Gravitation, 2015, 47, 11.	0.7	4
24	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
25	Resonant detectors and interferometers can work together. , 2003, 4856, 230.		0
26	THE LIGO GRAVITATIONAL WAVE OBSERVATORIES: RECENT RESULTS AND FUTURE PLANS. , 2006, , .		0