

Karl Wette

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,939
citations

279798

23
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

4658
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphics processing unit implementation of the F -statistic for continuous gravitational wave searches. <i>Classical and Quantum Gravity</i> , 2022, 39, 045003.	4.0	3
2	SPIIR online coherent pipeline to search for gravitational waves from compact binary coalescences. <i>Physical Review D</i> , 2022, 105, .	4.7	31
3	Template lattices for a cross-correlation search for gravitational waves from Scorpius X-1. <i>Classical and Quantum Gravity</i> , 2022, 39, 075013.	4.0	6
4	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
5	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.	4.5	144
6	Deep exploration for continuous gravitational waves at 171â€“172ÂHz in LIGO second observing run data. <i>Physical Review D</i> , 2021, 103, .	4.7	15
7	Geometric Approach to Analytic Marginalisation of the Likelihood Ratio for Continuous Gravitational Wave Searches. <i>Universe</i> , 2021, 7, 174.	2.5	4
8	Deep searches for X-ray pulsations from Scorpius X-1 and Cygnus X-2 in support of continuous gravitational wave searches. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1745-1754.	4.4	7
9	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	26.7	447
10	SWIGLAL: Python and Octave interfaces to the LALSuite gravitational-wave data analysis libraries. <i>SoftwareX</i> , 2020, 12, 100634.	2.6	21
11	Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	114
12	Optimizing the choice of analysis method for all-sky searches for continuous gravitational waves with Einstein@Home. <i>Physical Review D</i> , 2019, 99, .	4.7	15
13	Reduced order modelling in searches for continuous gravitational waves â€“ I. Barycentring time delays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4510-4519.	4.4	2
14	The very faint X-ray binary IGR J17062-6143: a truncated disc, no pulsations, and a possible outflow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2027-2044.	4.4	30
15	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
16	Implementing a semicoherent search for continuous gravitational waves using optimally constructed template banks. <i>Physical Review D</i> , 2018, 97, .	4.7	24
17	Fast and accurate sensitivity estimation for continuous-gravitational-wave searches. <i>Physical Review D</i> , 2018, 98, .	4.7	48
18	A Deep Pulse Search in 11 Low Mass X-Ray Binaries. <i>Astrophysical Journal</i> , 2018, 859, 112.	4.5	11

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19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
20	OctApps: a library of Octave functions for continuous gravitational-wave data analysis. Journal of Open Source Software, 2018, 3, 707.	4.6	11
21	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
22	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
23	Einstein@Home search for continuous gravitational waves from Cassiopeia A. Physical Review D, 2016, 94, .	4.7	28
24	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
25	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
26	Empirically extending the range of validity of parameter-space metrics for all-sky searches for gravitational-wave pulsars. Physical Review D, 2016, 94, .	4.7	19
27	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
28	Parameter-space metric for all-sky semicoherent searches for gravitational-wave pulsars. Physical Review D, 2015, 92, .	4.7	32
29	Gravitational waves: search results, data analysis and parameter estimation. General Relativity and Gravitation, 2015, 47, 11.	2.0	4
30	Lattice template placement for coherent all-sky searches for gravitational-wave pulsars. Physical Review D, 2014, 90, .	4.7	32
31	Implementing a search for aligned-spin neutron star-black hole systems with advanced ground based gravitational wave detectors. Physical Review D, 2014, 90, .	4.7	143
32	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619.	31.4	825
33	Flat parameter-space metric for all-sky searches for gravitational-wave pulsars. Physical Review D, 2013, 88, .	4.7	31
34	Estimating the sensitivity of wide-parameter-space searches for gravitational-wave pulsars. Physical Review D, 2012, 85, .	4.7	51
35	Sinking of a magnetically confined mountain on an accreting neutron star. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1099-1110.	4.4	29
36	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461.	4.5	90

#	ARTICLE	IF	CITATIONS
37	Searching for gravitational waves from Cassiopeia A with LIGO. Classical and Quantum Gravity, 2008, 25, 235011.	4.0	75
38	Using generalized PowerFlux methods to estimate the parameters of periodic gravitational waves. Classical and Quantum Gravity, 2008, 25, 114044.	4.0	5
39	Gingin High Optical Power Test Facility. Journal of Physics: Conference Series, 2006, 32, 368-373.	0.4	24
40	Status of the Australian Consortium for Interferometric Gravitational Astronomy. Classical and Quantum Gravity, 2006, 23, S41-S49.	4.0	14