

Peter Kalmus

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1224633/publications.pdf>

Version: 2024-02-01

110
papers

10,983
citations

25034

57
h-index

29157

104
g-index

118
all docs

118
docs citations

118
times ranked

6493
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015, 32, 115012.	4.0	1,029
2	LIGO: the Laser Interferometer Gravitational-Wave Observatory. <i>Reports on Progress in Physics</i> , 2009, 72, 076901.	20.1	971
3	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2010, 27, 173001.	4.0	956
4	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013, 7, 613-619.	31.4	825
5	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011, 7, 962-965.	16.7	716
6	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009, 460, 990-994.	27.8	303
7	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. <i>Physical Review D</i> , 2012, 85, .	4.7	185
8	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. <i>Astrophysical Journal</i> , 2008, 683, L45-L49.	4.5	160
9	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010, 713, 671-685.	4.5	155
10	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008, 681, 1419-1430.	4.5	143
11	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013, 88, .	4.7	132
12	Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run. <i>Physical Review D</i> , 2007, 76, .	4.7	128
13	Search for gravitational waves from binary inspirals in S3 and S4 LIGO data. <i>Physical Review D</i> , 2008, 77, .	4.7	126
14	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014, 785, 119.	4.5	125
15	Observation of a kilogram-scale oscillator near its quantum ground state. <i>New Journal of Physics</i> , 2009, 11, 073032.	2.9	123
16	Upper limits on gravitational wave emission from 78 radio pulsars. <i>Physical Review D</i> , 2007, 76, .	4.7	121
17	Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. <i>Astrophysical Journal</i> , 2007, 659, 918-930.	4.5	120
18	Search for gravitational waves from low mass binary coalescences in the first year of LIGO's S5 data. <i>Physical Review D</i> , 2009, 79, .	4.7	120

#	ARTICLE	IF	CITATIONS
19	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.	1.6	120
20	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. Physical Review D, 2010, 82, .	4.7	111
21	All-sky search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2008, 77, .	4.7	110
22	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. Physical Review D, 2010, 81, .	4.7	107
23	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. Physical Review D, 2012, 85, .	4.7	107
24	Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGO's fifth science run. Physical Review D, 2009, 80, .	4.7	105
25	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513.	4.5	104
26	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. Astrophysical Journal, 2012, 760, 12.	4.5	104
27	X-Pipeline: an analysis package for autonomous gravitational-wave burst searches. New Journal of Physics, 2010, 12, 053034.	2.9	99
28	Concerns of young protesters are justified. Science, 2019, 364, 139-140.	12.6	96
29	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102.	7.8	94
30	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009-2010. Physical Review D, 2013, 87, .	4.7	92
31	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. Physical Review D, 2013, 87, .	4.7	91
32	Upper limit map of a background of gravitational waves. Physical Review D, 2007, 76, .	4.7	90
33	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
34	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. Astrophysical Journal, 2011, 737, 93.	4.5	89
35	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009-2010 LIGO and Virgo Data. Physical Review Letters, 2014, 113, 231101.	7.8	86
36	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. Physical Review D, 2011, 83, .	4.7	85

#	ARTICLE	IF	CITATIONS
37	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 539, A124.	5.1	84
38	All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. <i>Physical Review Letters</i> , 2009, 102, 111102.	7.8	83
39	Einstein@Home search for periodic gravitational waves in LIGO S4 data. <i>Physical Review D</i> , 2009, 79, .	4.7	83
40	Search for gravitational-wave bursts in the first year of the fifth LIGO science run. <i>Physical Review D</i> , 2009, 80, .	4.7	79
41	Search for gravitational-wave bursts in LIGO data from the fourth science run. <i>Classical and Quantum Gravity</i> , 2007, 24, 5343-5369.	4.0	78
42	Einstein@Home search for periodic gravitational waves in early S5 LIGO data. <i>Physical Review D</i> , 2009, 80, .	4.7	78
43	Correlated gravitational wave and neutrino signals from general-relativistic rapidly rotating iron core collapse. <i>Physical Review D</i> , 2012, 86, .	4.7	77
44	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 541, A155.	5.1	75
45	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012, 29, 155002.	4.0	73
46	Search for Gravitational-Wave Bursts from Soft Gamma Repeaters. <i>Physical Review Letters</i> , 2008, 101, 211102.	7.8	69
47	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2014, 112, 131101.	7.8	68
48	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012, 85, .	4.7	66
49	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013, 88, .	4.7	65
50	Inferring core-collapse supernova physics with gravitational waves. <i>Physical Review D</i> , 2012, 86, .	4.7	63
51	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 28.	7.7	62
52	Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs. <i>Physical Review D</i> , 2008, 77, .	4.7	60
53	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. <i>Astrophysical Journal</i> , 2010, 715, 1438-1452.	4.5	60
54	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 755, 2.	4.5	60

#	ARTICLE	IF	CITATIONS
55	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014, 90, .	4.7	60
56	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , 2016, 94, .	4.7	60
57	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 7.	7.7	57
58	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011, 734, L35.	8.3	55
59	Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals. <i>Physical Review D</i> , 2008, 78, .	4.7	54
60	Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. <i>Physical Review D</i> , 2011, 83, .	4.7	54
61	Search for gravitational wave radiation associated with the pulsating tail of the SGR<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1806</mml:mn><mml:mo>âˆ²</mml:mo><mml:mn>20</mml:mn></mml:math> hyperflâˆ² of 27 December 2004 using LIGO. <i>Physical Review D</i> , 2007, 76, .	4.7	51
62	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012, 85, .	4.7	48
63	First LIGO search for gravitational wave bursts from cosmic (super)strings. <i>Physical Review D</i> , 2009, 80, .	4.7	45
64	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. <i>Astrophysical Journal</i> , 2009, 701, L68-L74.	4.5	45
65	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600â€“1000ÅHz. <i>Physical Review D</i> , 2012, 85, .	4.7	43
66	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014, 31, 115004.	4.0	42
67	The transient gravitational-wave sky. <i>Classical and Quantum Gravity</i> , 2013, 30, 193002.	4.0	40
68	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , 2015, 91, .	4.7	39
69	Single-footprint retrievals of temperature, water vapor and cloud properties from AIRS. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 971-995.	3.1	39
70	Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data. <i>Physical Review D</i> , 2009, 80, .	4.7	38
71	First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds. <i>Physical Review D</i> , 2007, 76, .	4.7	35
72	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. <i>Physical Review D</i> , 2014, 89, .	4.7	35

#	ARTICLE	IF	CITATIONS
73	Implementation of an F -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014, 31, 165014.	4.0	34
74	Search for high frequency gravitational-wave bursts in the first calendar year of LIGO's fifth science run. <i>Physical Review D</i> , 2009, 80, .	4.7	32
75	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 008-008.	5.4	32
76	Search for Gravitational Waves Associated with γ -ray Bursts Detected by the Interplanetary Network. <i>Physical Review Letters</i> , 2014, 113, 011102.	7.8	32
77	Laboratory Detection of the Linear Cyanopolyne HC ₁₁ N. <i>Astrophysical Journal</i> , 1996, 469, L65-L68.	4.5	31
78	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , 2013, 88, .	4.7	31
79	Laboratory Detection of the C ₉ H Radical. <i>Astrophysical Journal</i> , 1996, 467, L125-L127.	4.5	29
80	Precise calibration of LIGO test mass actuators using photon radiation pressure. <i>Classical and Quantum Gravity</i> , 2009, 26, 245011.	4.0	29
81	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. <i>Physical Review D</i> , 2014, 90, .	4.7	29
82	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. <i>Physical Review D</i> , 2014, 89, .	4.7	29
83	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. <i>Physical Review D</i> , 2014, 89, .	4.7	28
84	Astrophysically triggered searches for gravitational waves: status and prospects. <i>Classical and Quantum Gravity</i> , 2008, 25, 114051.	4.0	26
85	The feasibility of water vapor sounding of the cloudy boundary layer using a differential absorption radar technique. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3631-3645.	3.1	23
86	First joint search for gravitational-wave bursts in LIGO and GEO 600 data. <i>Classical and Quantum Gravity</i> , 2008, 25, 245008.	4.0	22
87	Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. <i>Classical and Quantum Gravity</i> , 2014, 31, 085014.	4.0	21
88	Observational Boundary Layer Energy and Water Budgets of the Stratocumulus-to-Cumulus Transition. <i>Journal of Climate</i> , 2014, 27, 9155-9170.	3.2	19
89	Stacking gravitational wave signals from soft gamma repeater bursts. <i>Physical Review D</i> , 2009, 80, .	4.7	17
90	A joint search for gravitational wave bursts with AURIGA and LIGO. <i>Classical and Quantum Gravity</i> , 2008, 25, 095004.	4.0	16

#	ARTICLE	IF	CITATIONS
91	The Pacific Subtropical Cloud Transition: A MAGIC Assessment of AIRS and ECMWF Thermodynamic Structure. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1586-1590.	3.1	16
92	Search method for unmodeled transient gravitational waves associated with SGR flares. Classical and Quantum Gravity, 2007, 24, S659-S669.	4.0	15
93	Microwave spectroscopy of the carbon chain radical C11H. Chemical Physics Letters, 1997, 264, 252-256.	2.6	14
94	Benefits of artificially generated gravity gradients for interferometric gravitational-wave detectors. Classical and Quantum Gravity, 2007, 24, 2217-2229.	4.0	13
95	Accurate calibration of test mass displacement in the LIGO interferometers. Classical and Quantum Gravity, 2010, 27, 084024.	4.0	12
96	Laboratory Detection of the Cyanopolyynes HC[TINF]13/[TINF]N. Astrophysical Journal, 1996, 472, L61-L62.	4.5	11
97	Past the Precipice? Projected Coral Habitability Under Global Heating. Earth's Future, 2022, 10, .	6.3	9
98	Correcting Biased Evaporation in CloudSat Warm Rain. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6207-6217.	6.3	7
99	Prospects of gravitational wave data mining and exploration via evolutionary computing. Journal of Physics: Conference Series, 2006, 32, 58-65.	0.4	6
100	Quantifying Marine Boundary Layer Water Vapor beneath Low Clouds with Near-Infrared and Microwave Imagery. Journal of Applied Meteorology and Climatology, 2016, 55, 213-225.	1.5	6
101	Accurate measurement of the time delay in the response of the LIGO gravitational wave detectors. Classical and Quantum Gravity, 2009, 26, 055010.	4.0	5
102	A high-resolution planetary boundary layer height seasonal climatology from GNSS radio occultations. Remote Sensing of Environment, 2022, 276, 113037.	11.0	5
103	Publisher's Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D >81, 102001 (2010)]. Physical Review D, 2012, 85, .	4.7	3
104	Trajectory-Enhanced AIRS Observations of Environmental Factors Driving Severe Convective Storms. Monthly Weather Review, 2019, 147, 1633-1653.	1.4	3
105	A fixed false alarm probability figure of merit for gravitational wave detectors. Classical and Quantum Gravity, 2014, 31, 085004.	4.0	3
106	Publisher's Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D >83, 042001 (2011)]. Physical Review D, 2012, 85, .	4.7	2
107	Publisher's Note: Upper limits on gravitational wave emission from 78 radio pulsars [Phys. Rev. D >76, 042001 (2007)]. Physical Review D, 2008, 77, .	4.7	0
108	Publisher's Note: All-sky search for periodic gravitational waves in LIGO S4 data [Phys. Rev. D >77, 022001 (2008)]. Physical Review D, 2008, 77, .	4.7	0

#	ARTICLE	IF	CITATIONS
109	Publisher's Note: First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds [Phys. Rev. D 76 , 022001 (2007)]. Physical Review D, 2008, 77, .	4.7	0
110	Publisher's Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D 83 , 042001 (2011)]. Physical Review D, 2011, 83, .	4.7	0