Vivien Raymond

List of Publications by Year
in descending order

50 papers	6,695 citations	37 h-index	46 g-index
50 all docs	50 docs citations	50 times ranked	5272 citing authors

94433
223800

#	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, .	6.6	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.	4.5	144
3	PESummary: The code agnostic Parameter Estimation Summary page builder. SoftwareX, 2021, 15, 100765.	2.6	42
4	Python-based reduced order quadrature building code for fast gravitational wave inference. Physical Review D, 2021, 104, .	4.7	7
5	Density estimation with Gaussian processes for gravitational wave posteriors. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2090-2097.	4.4	7
6	Parameter estimation bias from overlapping binary black hole events in second generation interferometers. Physical Review D, 2021, 104, .	4.7	14
7	Direct limits for scalar field dark matter from a gravitational-wave detector. Nature, 2021, 600, 424-428.	27.8	43
8	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
9	Prompt and accurate sky localization of gravitational-wave sources. Journal of Physics: Conference Series, 2020, 1468, 012219.	0.4	0
10	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
11	Rapid parameter estimation of gravitational waves from binary neutron star coalescence using focused reduced order quadrature. Physical Review D, 2020, 102, .	4.7	34
12	Bayesian inference for compact binary coalescences with <scp>bilby</scp>: validation and application to the first LIGOâ€“Virgo gravitational-wave transient catalogue. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3295-3319.	4.4	213
13	Parameter estimation with a spinning multimode waveform model. Physical Review D, 2020, 101, .	4.7	33
14	Astrophysical science metrics for next-generation gravitational-wave detectors. Classical and Quantum Gravity, 2019, 36, 245010.	4.0	27
15	Measuring the neutron star equation of state with gravitational waves: The first forty binary neutron star merger observations. Physical Review D, 2019, 100, .	4.7	44
16	PyCBC Inference: A Python-based Parameter Estimation Toolkit for Compact Binary Coalescence Signals. Publications of the Astronomical Society of the Pacific, 2019, 131, 024503.	3.1	156
17	On the properties of the massive binary black hole merger GW170729. Physical Review D, 2019, 100, .	4.7	82
18	Parametrized tests of the strong-field dynamics of general relativity using gravitational wave signals from coalescing binary black holes: Fast likelihood calculations and sensitivity of the method. Physical Review D, 2018, 97, .	4.7	40

#	Article	IF	Citations
19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
20	Mitigation of the instrumental noise transient in gravitational-wave data surrounding GW170817. Physical Review D, 2018, 98, .	4.7	75
21	Black-hole spectroscopy by making full use of gravitational-wave modeling. Physical Review D, 2018, 98, .	4.7	85
22	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
23	Improved effective-one-body model of spinning, nonprecessing binary black holes for the era of gravitational-wave astrophysics with advanced detectors. Physical Review D, 2017, 95, .	4.7	401
24	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
25	Parameter estimation for heavy binary-black holes with networks of second-generation gravitational-wave detectors. Physical Review D, 2017, 95, .	4.7	66
26	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
27	Accelerating parameter estimation of gravitational waves from black hole binaries with reduced order quadratures. , 2017, , .		0
28	SUPPLEMENT: â€œGOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UPâ€•(2016, ApJL, 829, L15). Astrophysical Journal, Supplement Series, 2016, 226, 10.	7.7	41
29	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
30	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
31	Fast and accurate inference on gravitational waves from precessing compact binaries. Physical Review D, 2016, 94, .	4.7	116
32	GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP. Astrophysical Journal Letters, 2016, 829, L15.	8.3	126
33	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
34	Accelerated Gravitational Wave Parameter Estimation with Reduced Order Modeling. Physical Review Letters, 2015, 114, 071104.	7.8	79
35	Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library. Physical Review D, 2015, 91, .	4.7	674
36	BASIC PARAMETER ESTIMATION OF BINARY NEUTRON STAR SYSTEMS BY THE ADVANCED LIGO/VIRGO NETWORK. Astrophysical Journal, 2014, 784, 119.	4.5	82

#	Article	IF	Citations
37	Parameter estimation of gravitational waves from precessing black hole-neutron star inspirals with higher harmonics. Physical Review D, 2014, 89, .	4.7	44
38	Systematic and statistical errors in a Bayesian approach to the estimation of the neutron-star equation of state using advanced gravitational wave detectors. Physical Review D, 2014, 89, .	4.7	192
39	Reconstructing the sky location of gravitational-wave detected compact binary systems: Methodology for testing and comparison. Physical Review D, 2014, 89, .	4.7	50
40	Measuring the Spin of Black Holes in Binary Systems Using Gravitational Waves. Physical Review Letters, 2014, 112, 251101.	7.8	95
41	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619.	31.4	825
42	Estimating parameters of coalescing compact binaries with proposed advanced detector networks. Physical Review D, 2012, 85, .	4.7	79
43	The effects of LIGO detector noise on a 15-dimensional Markov-chain Monte Carlo analysis of gravitational-wave signals. Classical and Quantum Gravity, 2010, 27, 114009.	4.0	24
44	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
45	Degeneracies in sky localization determination from a spinning coalescing binary through gravitational wave observations: a Markov-chain Monte Carlo analysis for two detectors. Classical and Quantum Gravity, 2009, 26, 114007.	4.0	47
46	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INJection Analysis (NINJA) project. Classical and Quantum Gravity, 2009, 26, 165008.	4.0	110
47	Parameter estimation for signals from compact binary inspirals injected into LIGO data. Classical and Quantum Gravity, 2009, 26, 204010.	4.0	36
48	Status of NINJA: the Numerical INJection Analysis project. Classical and Quantum Gravity, 2009, 26, 114008.	4.0	39
49	Parameter estimation of spinning binary inspirals using Markov chain Monte Carlo. Classical and Quantum Gravity, 2008, 25, 184011.	4.0	95
50	Gravitational-Wave Astronomy with Inspiral Signals of Spinning Compact-Object Binaries. Astrophysical Journal, 2008, 688, L61-L64.	4.5	89