

Vivien Raymond

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

6,695
citations

94433

37
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

5272
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.	31.4	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.	26.7	808
3	Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library. <i>Physical Review D</i> , 2015, 91, .	4.7	674
4	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
5	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	26.7	427
6	Improved effective-one-body model of spinning, nonprecessing binary black holes for the era of gravitational-wave astrophysics with advanced detectors. <i>Physical Review D</i> , 2017, 95, .	4.7	401
7	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	4.0	225
8	Bayesian inference for compact binary coalescences with <code>bilby</code> : validation and application to the first LIGO+Virgo gravitational-wave transient catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3295-3319.	4.4	213
9	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
10	Systematic and statistical errors in a Bayesian approach to the estimation of the neutron-star equation of state using advanced gravitational wave detectors. <i>Physical Review D</i> , 2014, 89, .	4.7	192
11	PyCBC Inference: A Python-based Parameter Estimation Toolkit for Compact Binary Coalescence Signals. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 024503.	3.1	156
12	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
13	GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP. <i>Astrophysical Journal Letters</i> , 2016, 829, L15.	8.3	126
14	Fast and accurate inference on gravitational waves from precessing compact binaries. <i>Physical Review D</i> , 2016, 94, .	4.7	116
15	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. <i>Classical and Quantum Gravity</i> , 2009, 26, 165008.	4.0	110
16	Parameter estimation of spinning binary inspirals using Markov chain Monte Carlo. <i>Classical and Quantum Gravity</i> , 2008, 25, 184011.	4.0	95
17	Measuring the Spin of Black Holes in Binary Systems Using Gravitational Waves. <i>Physical Review Letters</i> , 2014, 112, 251101.	7.8	95
18	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.	4.5	90

#	ARTICLE	IF	CITATIONS
19	Gravitational-Wave Astronomy with Inspiral Signals of Spinning Compact-Object Binaries. <i>Astrophysical Journal</i> , 2008, 688, L61-L64.	4.5	89
20	Black-hole spectroscopy by making full use of gravitational-wave modeling. <i>Physical Review D</i> , 2018, 98, .	4.7	85
21	BASIC PARAMETER ESTIMATION OF BINARY NEUTRON STAR SYSTEMS BY THE ADVANCED LIGO/VIRGO NETWORK. <i>Astrophysical Journal</i> , 2014, 784, 119.	4.5	82
22	On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , 2019, 100, .	4.7	82
23	Estimating parameters of coalescing compact binaries with proposed advanced detector networks. <i>Physical Review D</i> , 2012, 85, .	4.7	79
24	Accelerated Gravitational Wave Parameter Estimation with Reduced Order Modeling. <i>Physical Review Letters</i> , 2015, 114, 071104.	7.8	79
25	Mitigation of the instrumental noise transient in gravitational-wave data surrounding GW170817. <i>Physical Review D</i> , 2018, 98, .	4.7	75
26	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	2.4	69
27	Parameter estimation for heavy binary-black holes with networks of second-generation gravitational-wave detectors. <i>Physical Review D</i> , 2017, 95, .	4.7	66
28	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.	4.5	52
29	Reconstructing the sky location of gravitational-wave detected compact binary systems: Methodology for testing and comparison. <i>Physical Review D</i> , 2014, 89, .	4.7	50
30	Degeneracies in sky localization determination from a spinning coalescing binary through gravitational wave observations: a Markov-chain Monte Carlo analysis for two detectors. <i>Classical and Quantum Gravity</i> , 2009, 26, 114007.	4.0	47
31	Parameter estimation of gravitational waves from precessing black hole-neutron star inspirals with higher harmonics. <i>Physical Review D</i> , 2014, 89, .	4.7	44
32	Measuring the neutron star equation of state with gravitational waves: The first forty binary neutron star merger observations. <i>Physical Review D</i> , 2019, 100, .	4.7	44
33	Direct limits for scalar field dark matter from a gravitational-wave detector. <i>Nature</i> , 2021, 600, 424-428.	27.8	43
34	PESummary: The code agnostic Parameter Estimation Summary page builder. <i>SoftwareX</i> , 2021, 15, 100765.	2.6	42
35	SUPPLEMENT: "GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP" (2016, <i>ApJL</i> , 829, L15). <i>Astrophysical Journal</i> , Supplement Series, 2016, 226, 10.	7.7	41
36	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. <i>Physical Review D</i> , 2018, 97, .	4.7	40

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37	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009, 26, 114008.	4.0	39
38	Parameter estimation for signals from compact binary inspirals injected into LIGO data. <i>Classical and Quantum Gravity</i> , 2009, 26, 204010.	4.0	36
39	Rapid parameter estimation of gravitational waves from binary neutron star coalescence using focused reduced order quadrature. <i>Physical Review D</i> , 2020, 102, .	4.7	34
40	Parameter estimation with a spinning multimode waveform model. <i>Physical Review D</i> , 2020, 101, .	4.7	33
41	Astrophysical science metrics for next-generation gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2019, 36, 245010.	4.0	27
42	The effects of LIGO detector noise on a 15-dimensional Markov-chain Monte Carlo analysis of gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2010, 27, 114009.	4.0	24
43	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
44	Parameter estimation bias from overlapping binary black hole events in second generation interferometers. <i>Physical Review D</i> , 2021, 104, .	4.7	14
45	Python-based reduced order quadrature building code for fast gravitational wave inference. <i>Physical Review D</i> , 2021, 104, .	4.7	7
46	Density estimation with Gaussian processes for gravitational wave posteriors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2090-2097.	4.4	7
47	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
48	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
49	Accelerating parameter estimation of gravitational waves from black hole binaries with reduced order quadratures. , 2017, , .		0
50	Prompt and accurate sky localization of gravitational-wave sources. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012219.	0.4	0