

Vivien Raymond

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

4,431
citations

33
h-index

50
g-index

50
ext. papers

5,647
ext. citations

7.8
avg, IF

4.73
L-index

#	Paper	IF	Citations
46	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	4.7	46
45	PESummary: The code agnostic Parameter Estimation Summary page builder. <i>SoftwareX</i> , 2021 , 15, 100765	5.0	4
44	Direct limits for scalar field dark matter from a gravitational-wave detector.. <i>Nature</i> , 2021 , 600, 424-428	50.4	4
43	Bayesian inference for compact binary coalescences with bilby: 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	4.3	62
42	Parameter estimation with a spinning multimode waveform model. <i>Physical Review D</i> , 2020 , 101,	4.9	17
41	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
40	Prompt and accurate sky localization of gravitational-wave sources. <i>Journal of Physics: Conference Series</i> , 2020 , 1468, 012219	0.3	
39	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020 , 52, 1	2.3	71
38	Rapid parameter estimation of gravitational waves from binary neutron star coalescence using focused reduced order quadrature. <i>Physical Review D</i> , 2020 , 102,	4.9	10
37	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	5	78
36	Astrophysical science metrics for next-generation gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2019 , 36, 245010	3.3	14
35	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,	4.9	26
34	On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , 2019 , 100,	4.9	61
33	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,	4.9	20
32	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
31	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
30	Mitigation of the instrumental noise transient in gravitational-wave data surrounding GW170817. <i>Physical Review D</i> , 2018 , 98,	4.9	49

29	Black-hole spectroscopy by making full use of gravitational-wave modeling. <i>Physical Review D</i> , 2018 , 98,	4.9	47
28	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,	4.9	264
27	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
26	Parameter estimation for heavy binary-black holes with networks of second-generation gravitational-wave detectors. <i>Physical Review D</i> , 2017 , 95,	4.9	51
25	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	4.7	42
24	Fast and accurate inference on gravitational waves from precessing compact binaries. <i>Physical Review D</i> , 2016 , 94,	4.9	84
23	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	7.9	96
22	SUPPLEMENT: GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP[2016, ApJL, 829, L15). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 226, 10	8	33
21	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
20	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016 , 19, 1	32.5	393
19			
18	Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library. <i>Physical Review D</i> , 2015 , 91,	4.9	509
17	Accelerated gravitational wave parameter estimation with reduced order modeling. <i>Physical Review Letters</i> , 2015 , 114, 071104	7.4	54
16	Measuring the spin of black holes in binary systems using gravitational waves. <i>Physical Review Letters</i> , 2014 , 112, 251101	7.4	76
15	BASIC PARAMETER ESTIMATION OF BINARY NEUTRON STAR SYSTEMS BY THE ADVANCED LIGO/VIRGO NETWORK. <i>Astrophysical Journal</i> , 2014 , 784, 119	4.7	68
14	Parameter estimation of gravitational waves from precessing black hole-neutron star inspirals with higher harmonics. <i>Physical Review D</i> , 2014 , 89,	4.9	41
13	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,	4.9	148
12	Reconstructing the sky location of gravitational-wave detected compact binary systems: Methodology for testing and comparison. <i>Physical Review D</i> , 2014 , 89,	4.9	43

11	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013 , 7, 613-619	33.9	572
10	Estimating parameters of coalescing compact binaries with proposed advanced detector networks. <i>Physical Review D</i> , 2012 , 85,	4.9	74
9	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	3.3	23
8	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	4.7	79
7	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	3.3	44
6	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	3.3	98
5	Parameter estimation for signals from compact binary inspirals injected into LIGO data. <i>Classical and Quantum Gravity</i> , 2009 , 26, 204010	3.3	33
4	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009 , 26, 114008	3.3	36
3	Parameter estimation of spinning binary inspirals using Markov chain Monte Carlo. <i>Classical and Quantum Gravity</i> , 2008 , 25, 184011	3.3	82
2	Gravitational-Wave Astronomy with Inspiral Signals of Spinning Compact-Object Binaries. <i>Astrophysical Journal</i> , 2008 , 688, L61-L64	4.7	85
1	Density estimation with Gaussian processes for gravitational wave posteriors. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	4