

# Vivien Raymond

## List of Publications by Citations

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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 | Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , <b>2013</b> , 7, 613-619  | 33.9 | 572       |
| 45 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2018</b> , 21, 3                                  | 32.5 | 543       |
| 44 | Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library. <i>Physical Review D</i> , <b>2015</b> , 91,                             | 4.9  | 509       |
| 43 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , <b>2016</b> , 19, 1   | 32.5 | 393       |
| 42 | 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> , <b>2017</b> , 95,          | 4.9  | 264       |
| 41 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , <b>2016</b> , 33,   | 3.3  | 155       |
| 40 | 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> , <b>2014</b> , 89,    | 4.9  | 148       |
| 39 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2020</b> , 23, 3                                  | 32.5 | 144       |
| 38 | Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 165008 | 3.3  | 98        |
| 37 | 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> , <b>2016</b> , 829, L15         | 7.9  | 96        |
| 36 | Gravitational-Wave Astronomy with Inspiral Signals of Spinning Compact-Object Binaries. <i>Astrophysical Journal</i> , <b>2008</b> , 688, L61-L64   | 4.7  | 85        |
| 35 | Fast and accurate inference on gravitational waves from precessing compact binaries. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4.9  | 84        |
| 34 | Parameter estimation of spinning binary inspirals using Markov chain Monte Carlo. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 184011   | 3.3  | 82        |
| 33 | 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> , <b>2010</b> , 715, 1453-1461          | 4.7  | 79        |
| 32 | PyCBC Inference: A Python-based Parameter Estimation Toolkit for Compact Binary Coalescence Signals. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2019</b> , 131, 024503               | 5    | 78        |
| 31 | Measuring the spin of black holes in binary systems using gravitational waves. <i>Physical Review Letters</i> , <b>2014</b> , 112, 251101   | 7.4  | 76        |
| 30 | Estimating parameters of coalescing compact binaries with proposed advanced detector networks. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9  | 74        |

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| 29 | Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , <b>2020</b> , 52, 1   | 2.3 | 71 |
| 28 | BASIC PARAMETER ESTIMATION OF BINARY NEUTRON STAR SYSTEMS BY THE ADVANCED LIGO/VIRGO NETWORK. <i>Astrophysical Journal</i> , <b>2014</b> , 784, 119  | 4.7 | 68 |
| 27 | 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> , <b>2020</b> , 499, 3295-3319  | 4.3 | 62 |
| 26 | On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , <b>2019</b> , 100,  | 4.9 | 61 |
| 25 | Accelerated gravitational wave parameter estimation with reduced order modeling. <i>Physical Review Letters</i> , <b>2015</b> , 114, 071104  | 7.4 | 54 |
| 24 | Parameter estimation for heavy binary-black holes with networks of second-generation gravitational-wave detectors. <i>Physical Review D</i> , <b>2017</b> , 95,  | 4.9 | 51 |
| 23 | Mitigation of the instrumental noise transient in gravitational-wave data surrounding GW170817. <i>Physical Review D</i> , <b>2018</b> , 98,   | 4.9 | 49 |
| 22 | Black-hole spectroscopy by making full use of gravitational-wave modeling. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 47 |
| 21 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , <b>2021</b> , 909, 218   | 4.7 | 46 |
| 20 | The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600209   | 2.6 | 45 |
| 19 | 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> , <b>2009</b> , 26, 114007   | 3.3 | 44 |
| 18 | Reconstructing the sky location of gravitational-wave detected compact binary systems: Methodology for testing and comparison. <i>Physical Review D</i> , <b>2014</b> , 89,  | 4.9 | 43 |
| 17 | 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> , <b>2017</b> , 841, 89                                  | 4.7 | 42 |
| 16 | Parameter estimation of gravitational waves from precessing black hole-neutron star inspirals with higher harmonics. <i>Physical Review D</i> , <b>2014</b> , 89,  | 4.9 | 41 |
| 15 | Status of NINJA: the Numerical INJection Analysis project. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 114008   | 3.9 | 36 |
| 14 | Parameter estimation for signals from compact binary inspirals injected into LIGO data. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 204010  | 3.3 | 33 |
| 13 | 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> , <b>2016</b> , 226, 10 | 8   | 33 |
| 12 | Measuring the neutron star equation of state with gravitational waves: The first forty binary neutron star merger observations. <i>Physical Review D</i> , <b>2019</b> , 100,  | 4.9 | 26 |

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|----|---|-----|----|
| 11 | 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> , <b>2010</b> , 27, 114009   | 3.3 | 23 |
| 10 | 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> , <b>2018</b> , 97, | 4.9 | 20 |
| 9  | Parameter estimation with a spinning multimode waveform model. <i>Physical Review D</i> , <b>2020</b> , 101,  | 4.9 | 17 |
| 8  | Astrophysical science metrics for next-generation gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , <b>2019</b> , 36, 245010   | 3.3 | 14 |
| 7  | Rapid parameter estimation of gravitational waves from binary neutron star coalescence using focused reduced order quadrature. <i>Physical Review D</i> , <b>2020</b> , 102,  | 4.9 | 10 |
| 6  | PESummary: The code agnostic Parameter Estimation Summary page builder. <i>SoftwareX</i> , <b>2021</b> , 15, 100765   | 5.0 | 4  |
| 5  | Density estimation with Gaussian processes for gravitational wave posteriors. <i>Monthly Notices of the Royal Astronomical Society</i> ,  | 4.3 | 4  |
| 4  | Direct limits for scalar field dark matter from a gravitational-wave detector.. <i>Nature</i> , <b>2021</b> , 600, 424-428  | 5.0 | 4  |
| 3  | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA <b>2018</b> , 21, 1   |     | 2  |
| 2  |   |     |    |
| 1  | Prompt and accurate sky localization of gravitational-wave sources. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1468, 012219   | 0.3 |    |