

# Rory Je Smith

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1684822/rory-je-smith-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

43  
papers

2,702  
citations

21  
h-index

50  
g-index

50  
ext. papers

3,615  
ext. citations

7.4  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
43	Measuring the Properties of Active Galactic Nuclei Disks with Gravitational Waves. <i>Astrophysical Journal</i> , <b>2022</b> , 931, 82	4.7	1
42	GW200115: A Nonspinning Black Hole-Neutron Star Merger. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 922, L14	7.9	4
41	Inference with finite time series: Observing the gravitational Universe through windows. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	5
40	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
39	GW190521 as a Merger of Proca Stars: A Potential New Vector Boson of $8.7 \times 10^{-13}$ eV. <i>Physical Review Letters</i> , <b>2021</b> , 126, 081101	7.4	37
38	Bayesian Inference for Gravitational Waves from Binary Neutron Star Mergers in Third Generation Observatories. <i>Physical Review Letters</i> , <b>2021</b> , 127, 081102	7.4	2
37	Measuring the Primordial Gravitational-Wave Background in the Presence of Astrophysical Foregrounds. <i>Physical Review Letters</i> , <b>2020</b> , 125, 241101	7.4	15
36	Analysis and visualization of the output mode-matching requirements for squeezing in Advanced LIGO and future gravitational wave detectors. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	7
35	Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network. <i>Publications of the Astronomical Society of Australia</i> , <b>2020</b> , 37,	5.5	47
34	Inferring the population properties of binary black holes from unresolved gravitational waves. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 496, 3281-3290	4.3	12
33	A scalable random forest regressor for combining neutron-star equation of state measurements: a case study with GW170817 and GW190425. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 499, 5972-5977	4.3	8
32	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
31	Massively parallel Bayesian inference for transient gravitational-wave astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 4492-4502	4.3	39
30	Exploring the sensitivity of gravitational wave detectors to neutron star physics. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	48
29	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
28	Parallelized inference for gravitational-wave astronomy. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	33
27	Accelerated detection of the binary neutron star gravitational-wave background. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7

26	Cosmological Simulations of Satellites around Isolated Dwarf Galaxies. <i>Astrophysical Journal</i> , <b>2019</b> , 881, 115	4.7	1
25	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
24	Optimal Search for an Astrophysical Gravitational-Wave Background. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	42
23	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
22	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA <b>2018</b> , 21, 1		2
21	Measuring eccentricity in binary black hole inspirals with gravitational waves. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	55
20	Enhancing confidence in the detection of gravitational waves from compact binaries using signal coherence. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	11
19	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600209	2.6	45
18	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
17	THE NEXT GENERATION VIRGO CLUSTER SURVEY. XXII. SHELL FEATURE EARLY-TYPE DWARF GALAXIES IN THE VIRGO CLUSTER. <i>Astrophysical Journal</i> , <b>2017</b> , 834, 66	4.7	20
16	A Surrogate model of gravitational waveforms from numerical relativity simulations of precessing binary black hole mergers. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	64
15	Star Formation of Merging Disk Galaxies with AGN Feedback Effects. <i>Astrophysical Journal</i> , <b>2017</b> , 845, 128	4.7	5
14	The Extended Baryonic Halo of NGC 3923. <i>Galaxies</i> , <b>2017</b> , 5, 29	2	2
13	Fast and accurate inference on gravitational waves from precessing compact binaries. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	84
12	A FORMATION SCENARIO FOR THE DISK OF SATELLITES: ACCRETION OF SATELLITES DURING MERGERS. <i>Astrophysical Journal</i> , <b>2016</b> , 818, 11	4.7	17
11	Fast simulation of Gaussian-mode scattering for precision interferometry. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 025604	1.7	4
10	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
9	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

8

7	Gravitational waves: search results, data analysis and parameter estimation: Amaldi 10 Parallel session C2. <i>General Relativity and Gravitation</i> , <b>2015</b> , 47, 11	2.3	3
6	Accelerated gravitational wave parameter estimation with reduced order modeling. <i>Physical Review Letters</i> , <b>2015</b> , 114, 071104	7.4	54
5	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
4	Towards rapid parameter estimation on gravitational waves from compact binaries using interpolated waveforms. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	27
3	Studies of waveform requirements for intermediate mass-ratio coalescence searches with advanced gravitational-wave detectors. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	17
2	Observing the dynamics of supermassive black hole binaries with pulsar timing arrays. <i>Physical Review Letters</i> , <b>2012</b> , 109, 081104	7.4	34
1	Computer-games for gravitational wave science outreach:Black Hole PongandSpace Time Quest. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 363, 012057	0.3	4