J R Gair

List of Publications by Year
in descending order

82 papers	10,832 citations	66343 42 h-index	69250 77 g-index
82 all docs	82 docs citations	82 times ranked	5959 citing authors

#	Article	IF	Citations
1	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4873-4887.	4.4	174
2	Observing Intermediate-mass Black Holes and the Upper Stellar-mass gap with LIGO and Virgo. Astrophysical Journal, 2022, 924, 39.	4.5	32
3	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
4	Reprint of : Fishers who rely on mangroves: Modelling and mapping the global intensity of mangrove-associated fisheries. Estuarine, Coastal and Shelf Science, 2021, 248, 107159.	2.1	18
5	Constraining unmodeled physics with compact binary mergers from GWTC-1. Physical Review D, 2021, 103, .	4.7	10
6	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
7	Mapping the inhomogeneous Universe with standard sirens: degeneracy between inhomogeneity and modified gravity theories. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3179-3193.	4.4	9
8	Testing the quasar Hubble diagram with LISA standard sirens. Physical Review D, 2021, 103, .	4.7	30
9	Estimating and Applying Fish and Invertebrate Density and Production Enhancement from Seagrass, Salt Marsh Edge, and Oyster Reef Nursery Habitats in the Gulf of Mexico. Estuaries and Coasts, 2021, 44, 1588.	2.2	19
10	High angular resolution gravitational wave astronomy. Experimental Astronomy, 2021, 51, 1441-1470.	3.7	21
11	Assessing the impact of transient orbital resonances. Physical Review D, 2021, 103, .	4.7	24
12	Complete parameter inference for GW150914 using deep learning. Machine Learning: Science and Technology, 2021, 2, 03LT01.	5.0	46
13	Noisy neighbours: inference biases from overlapping gravitational-wave signals. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5069-5086.	4.4	18
14	On the importance of source population models for gravitational-wave cosmology. Physical Review D, 2021, 104, .	4.7	48
15	Seagrass valuation from fish abundance, biomass and recreational catch. Ecological Indicators, 2021, 130, 108097.	6.3	2
16	Gravitational-wave cosmology with extreme mass-ratio inspirals. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4512-4531.	4.4	26
17	Discriminating between different scenarios for the formation and evolution of massive black holes with LISA. Physical Review D, 2021, 104, .	4.7	7
18	A simulation study of how religious fundamentalism takes root. Journal of Economic Behavior and Organization, 2021, 192, 465-481.	2.0	2

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19	Real-Time Gravitational Wave Science with Neural Posterior Estimation. Physical Review Letters, 2021, 127, 241103.	7.8	61
20	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
21	Cosmological inference using gravitational wave standard sirens: A mock data analysis. Physical Review D, 2020, 101, .	4.7	95
22	Transition from inspiral to plunge: A complete near-extremal trajectory and associated waveform. Physical Review D, 2020, 101, .	4.7	17
23	Fishers who rely on mangroves: Modelling and mapping the global intensity of mangrove-associated fisheries. Estuarine, Coastal and Shelf Science, 2020, 247, 106975.	2.1	35
24	Gravitational-wave parameter estimation with autoregressive neural network flows. Physical Review D, 2020, 102, .	4.7	74
25	Identifying and addressing nonstationary LISA noise. Physical Review D, 2020, 102, .	4.7	20
26	Astrometric effects of gravitational wave backgrounds with nonluminal propagation speeds. Physical Review D, 2020, 101, .	4.7	9
27	Quantifying fisheries enhancement from coastal vegetated ecosystems. Ecosystem Services, 2020, 43, 101105.	5.4	38
28	Constraining the spin parameter of near-extremal black holes using LISA. Physical Review D, 2020, 102, .	4.7	11
29	<scp>stroopwafel</scp>: simulating rare outcomes from astrophysical populations, with application to gravitational-wave sources. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5228-5248.	4.4	30
30	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. Astrophysical Journal Letters, 2019, 871, L13.	8.3	145
31	Extracting distribution parameters from multiple uncertain observations with selection biases. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1086-1093.	4.4	217
32	Eccentric, nonspinning, inspiral, Gaussian-process merger approximant for the detection and characterization of eccentric binary black hole mergers. Physical Review D, 2018, 97, .	4.7	100
33	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
34	Towards a framework for testing general relativity with extreme-mass-ratio-inspiral observations. Monthly Notices of the Royal Astronomical Society, 2018, 478, 28-40.	4.4	16
35	Astrometric effects of gravitational wave backgrounds with non-Einsteinian polarizations. Physical Review D, 2018, 97, .	4.7	21
36	Strategies for the follow-up of gravitational wave transients with the Cherenkov Telescope Array. Monthly Notices of the Royal Astronomical Society, 2018, 477, 639-647.	4.4	9

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37	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
38	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
39	Augmented kludge waveforms for detecting extreme-mass-ratio inspirals. Physical Review D, 2017, 96, .	4.7	75
40	Transition of EMRIs through resonance: Corrections to higher order in the on-resonance flux modification. Journal of Mathematical Physics, 2017, 58, 112501.	1.1	9
41	Science with the space-based interferometer LISA. V. Extreme mass-ratio inspirals. Physical Review D, 2017, 95, .	4.7	344
42	Importance of transient resonances in extreme-mass-ratio inspirals. Physical Review D, 2016, 94, .	4.7	46
43	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
44	Fast methods for training Gaussian processes on large datasets. Royal Society Open Science, 2016, 3, 160125.	2.4	33
45	Science with the space-based interferometer eLISA: Supermassive black hole binaries. Physical Review D, 2016, 93, .	4.7	321
46	Quantifying fish and mobile invertebrate production from a threatened nursery habitat. Journal of Applied Ecology, 2016, 53, 596-606.	4.0	90
47	Quantifying and mitigating bias in inference on gravitational wave source populations. Physical Review D, 2015, 91, .	4.7	13
48	Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library. Physical Review D, 2015, 91, .	4.7	674
49	Limits on Anisotropy in the Nanohertz Stochastic Gravitational Wave Background. Physical Review Letters, 2015, 115, 041101.	7.8	47
50	Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001.	4.0	1,929
51	European Pulsar Timing Array limits on an isotropic stochastic gravitational-wave background. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2577-2599.	4.4	380
52	Improved analytic extreme-mass-ratio inspiral model for scoping out eLISA data analysis. Classical and Quantum Gravity, 2015, 32, 232002.	4.0	42
53	Novel Method for Incorporating Model Uncertainties into Gravitational Wave Parameter Estimates. Physical Review Letters, 2014, 113, 251101.	7.8	23
54	Reconstructing the sky location of gravitational-wave detected compact binary systems: Methodology for testing and comparison. Physical Review D, 2014, 89, .	4.7	50

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55	Relativistic astrophysics at GR20. General Relativity and Gravitation, 2014, 46, 1.	2.0	1
56	Testing General Relativity with Low-Frequency, Space-Based Gravitational-Wave Detectors. Living Reviews in Relativity, 2013, 16, 7.	26.7	215
57	Gravitational wave parameter estimation with compressed likelihood evaluations. Physical Review D, 2013, 87, .	4.7	52
58	Resonances in extreme mass-ratio inspirals: Asymptotic and hyperasymptotic analysis. Journal of Mathematical Physics, 2012, 53, .	1.1	20
59	Cosmology with the lights off: Standard sirens in the Einstein Telescope era. Physical Review D, 2012, 86, .	4.7	133
60	Verifying the no-hair property of massive compact objects with intermediate-mass-ratio inspirals in advanced gravitational-wave detectors. Physical Review D, 2012, 85, .	4.7	36
61	Cosmology using advanced gravitational-wave detectors alone. Physical Review D, 2012, 85, .	4.7	127
62	Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013.	4.0	355
63	DETECTING COALESCENCES OF INTERMEDIATE-MASS BLACK HOLES IN GLOBULAR CLUSTERS WITH THE EINSTEIN TELESCOPE. , 2012, , .		0
64	Reconstructing the massive black hole cosmic history through gravitational waves. Physical Review D, 2011, 83, .	4.7	110
65	Exploring intermediate and massive black-hole binaries with the Einstein Telescope. General Relativity and Gravitation, 2011, 43, 485-518.	2.0	77
66	Constraining properties of the black hole population using LISA. Classical and Quantum Gravity, 2011, 28, 094018.	4.0	36
67	Graviton mass bounds from space-based gravitational-wave observations of massive black hole populations. Physical Review D, 2011, 84, .	4.7	48
68	LISA extreme-mass-ratio inspiral events as probes of the black hole mass function. Physical Review D, 2010, 81, .	4.7	68
69	The Einstein Telescope: a third-generation gravitational wave observatory. Classical and Quantum Gravity, 2010, 27, 194002.	4.0	1,211
70	The Mock LISA Data Challenges: from challenge 3 to challenge 4. Classical and Quantum Gravity, 2010, 27, 084009.	4.0	83
71	Massive black-hole binary inspirals: results from the LISA parameter estimation taskforce. Classical and Quantum Gravity, 2009, 26, 094027.	4.0	93
72	Probing black holes at low redshift using LISA EMRI observations. Classical and Quantum Gravity, 2009, 26, 094034.	4.0	49

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73	An algorithm for the detection of extreme mass ratio inspirals in LISA data. Classical and Quantum Gravity, 2009, 26, 135004.	4.0	39
74	The Mock LISA Data Challenges: from Challenge 1B to Challenge 3. Classical and Quantum Gravity, 2008, 25, 184026.	4.0	64
75	APPROXIMATE WAVEFORM TEMPLATES FOR DETECTION OF EXTREME MASS RATIO INSPIRALS WITH LISA. , 2008, , .		0
76	DETECTING LISA SOURCES USING TIME-FREQUENCY TECHNIQUES. , 2008, , .		0
77	Intermediate and extreme mass-ratio inspiralsâ€"astrophysics, science applications and detection using LISA. Classical and Quantum Gravity, 2007, 24, R113-R169.	4.0	382
78	â€œKludgeâ€• gravitational waveforms for a test-body orbiting a Kerr black hole. Physical Review D, 2007, 75, .	4.7	151
79	Improved approximate inspirals of test bodies into Kerr black holes. Physical Review D, 2006, 73, .	4.7	94
80	Extracting Information about EMRIs using Time-Frequency Methods. AIP Conference Proceedings, 2006, , .	0.4	2
81	Detecting extreme mass ratio inspirals with LISA using timeâ€"frequency methods. Classical and Quantum Gravity, 2005, 22, S445-S451.	4.0	27
82	Event rate estimates for LISA extreme mass ratio capture sources. Classical and Quantum Gravity, 2004, 21, S1595-S1606.	4.0	184