

Simone Mastrogiovanni

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

7,479
citations

147801

31
h-index

206112

48
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50
all docs

50
docs citations

50
times ranked

6004
citing authors

#	ARTICLE	IF	CITATIONS
1	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
2	Measuring Cosmological Parameters with Gravitational Waves. , 2022, , 1821-1871.		0
3	Gravitational wave friction in light of GW170817 and GW190521. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 043-043.	5.4	24
4	Sidereal filtering: A novel robust method to search for continuous gravitational waves. Physical Review D, 2021, 103, .	4.7	3
5	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
6	The potential role of binary neutron star merger afterglows in multimessenger cosmology. Astronomy and Astrophysics, 2021, 652, A1.	5.1	10
7	On the importance of source population models for gravitational-wave cosmology. Physical Review D, 2021, 104, .	4.7	48
8	The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386.	4.3	9
9	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
10	Cosmological inference using gravitational wave standard sirens: A mock data analysis. Physical Review D, 2020, 101, .	4.7	95
11	Probing modified gravity theories and cosmology using gravitational-waves and associated electromagnetic counterparts. Physical Review D, 2020, 102, .	4.7	41
12	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. Physical Review Letters, 2020, 125, 131101.	7.8	35
13	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
14	Directed search for continuous gravitational-wave signals from the Galactic Center in the Advanced LIGO second observing run. Physical Review D, 2020, 101, .	4.7	29
15	A morphology-independent search for gravitational wave echoes in data from the first and second observing runs of Advanced LIGO and Advanced Virgo. Physical Review D, 2020, 101, .	4.7	41
16	Establishing the significance of continuous gravitational-wave detections from known pulsars. Physical Review D, 2020, 102, .	4.7	13
17	A resampling algorithm to detect continuous gravitational-wave signals from neutron stars in binary systems. Classical and Quantum Gravity, 2019, 36, 205015.	4.0	3
18	How effective is machine learning to detect long transient gravitational waves from neutron stars in a real search?. Physical Review D, 2019, 100, .	4.7	38

#	ARTICLE	IF	CITATIONS
19	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13.	8.3	145
20	Gravitational wave observations, distance measurement uncertainties, and cosmology. <i>Physical Review D</i> , 2019, 100, .	4.7	17
21	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , 2019, 123, 231108.	7.8	254
22	Direct Constraints on the Ultralight Boson Mass from Searches of Continuous Gravitational Waves. <i>Physical Review Letters</i> , 2019, 123, 171101.	7.8	87
23	A new data analysis framework for the search of continuous gravitational wave signals. <i>Classical and Quantum Gravity</i> , 2019, 36, 015008.	4.0	31
24	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
25	Phase decomposition of the template metric for continuous gravitational-wave searches. <i>Physical Review D</i> , 2018, 98, .	4.7	3
26	Method to search for long duration gravitational wave transients from isolated neutron stars using the generalized frequency-Hough transform. <i>Physical Review D</i> , 2018, 98, .	4.7	28
27	Semicoherent analysis method to search for continuous gravitational waves emitted by ultralight boson clouds around spinning black holes. <i>Physical Review D</i> , 2018, 98, .	4.7	44
28	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $\langle i \rangle h \langle /i \rangle$ ($\langle i \rangle t \langle /i \rangle$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.0	41
29	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018, 182, 02003.	0.3	9
30	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	4.0	98
31	An improved algorithm for narrow-band searches of continuous gravitational waves. <i>Classical and Quantum Gravity</i> , 2017, 34, 135007.	4.0	12
32	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101.	7.8	194
33	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	7.8	84
34	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	4.5	131
35	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	2.4	69
36	Novel directed search strategy to detect continuous gravitational waves from neutron stars in low- and high-eccentricity binary systems. <i>Physical Review D</i> , 2017, 95, .	4.7	9

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37	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
38	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , 2017, 32, 1744003.	1.5	6
39	Comparison of methods for the detection of gravitational waves from unknown neutron stars. <i>Physical Review D</i> , 2016, 94, .	4.7	34
40	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016, 6, .	8.9	106
41	Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. <i>Physical Review D</i> , 2016, 94, .	4.7	31
42	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. <i>Physical Review D</i> , 2016, 94, .	4.7	35
43	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , 2016, 94, .	4.7	60
44	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARâ€“BLACK HOLE MERGERS FROM ADVANCED LIGOâ€™S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21.	8.3	146
45	Directly comparing GW150914 with numerical solutions of Einsteinâ€™s equations for binary black hole coalescence. <i>Physical Review D</i> , 2016, 94, .	4.7	102
46	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , 2016, 93, .	4.7	32
47	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007â€“2013. <i>Physical Review D</i> , 2016, 93, .	4.7	14
48	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016, 116, 241103.	7.8	2,701
49	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016, 6, .	8.9	898