

Marica Branchesi

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

40,418
citations

15504

65
h-index

19749

117
g-index

119
all docs

119
docs citations

119
times ranked

14626
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi Order Coverage data structure to plan multi-messenger observations. <i>Astronomy and Computing</i> , 2022, 39, 100547.	1.7	1
2	Production of Very Light Elements and Strontium in the Early Ejecta of Neutron Star Mergers. <i>Astrophysical Journal</i> , 2022, 925, 22.	4.5	33
3	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
4	Breakthrough Multi-Messenger Astrophysics with the THESEUS Space Mission. <i>Galaxies</i> , 2022, 10, 60.	3.0	3
5	On the Single-event-based Identification of Primordial Black Hole Mergers at Cosmological Distances. <i>Astrophysical Journal Letters</i> , 2022, 931, L12.	8.3	19
6	Electromagnetic Counterparts of Gravitational Waves in the Hz-kHz Range. , 2022, , 947-991.		0
7	Electromagnetic counterparts of compact binary mergers. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	13
8	Lunar Gravitational-wave Antenna. <i>Astrophysical Journal</i> , 2021, 910, 1.	4.5	41
9	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.	4.5	144
10	Gravitational-wave physics and astronomy in the 2020s and 2030s. <i>Nature Reviews Physics</i> , 2021, 3, 344-366.	26.6	96
11	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , 2021, 913, L27.	8.3	32
12	Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021, 913, L7.	8.3	514
13	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	8.3	453
14	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102.	7.8	87
15	Gamma ray burst studies with THESEUS. <i>Experimental Astronomy</i> , 2021, 52, 277-308.	3.7	9
16	Spectral index-flux relation for investigating the origins of steep decay in $\hat{\Gamma}$ -ray bursts. <i>Nature Communications</i> , 2021, 12, 4040.	12.8	6
17	Synergies of THESEUS with the large facilities of the 2030s and guest observer opportunities. <i>Experimental Astronomy</i> , 2021, 52, 407-437.	3.7	8
18	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3a. <i>Astrophysical Journal</i> , 2021, 915, 86.	4.5	20

#	ARTICLE	IF	CITATIONS
19	GrailQuest: hunting for atoms of space and time hidden in the wrinkle of Space-Time. Experimental Astronomy, 2021, 51, 1255-1297.	3.7	7
20	Multi-messenger astrophysics with THESEUS in the 2030s. Experimental Astronomy, 2021, 52, 245-275.	3.7	12
21	Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 921, 80.	4.5	39
22	Electromagnetic Counterparts of Gravitational Waves in the Hz-kHz Range. , 2021, , 1-45.		0
23	Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537â€“6910. Astrophysical Journal, 2021, 922, 71.	4.5	29
24	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGOâ€“Virgoâ€™s Third Observing Run. Astrophysical Journal, 2021, 923, 14.	4.5	59
25	The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386.	4.3	9
26	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
27	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. Astrophysical Journal, 2020, 893, 100.	4.5	12
28	GW190521: A Binary Black Hole Merger with a Total Mass of 150% . Physical Review Letters, 2020, 125, 101102.	7.8	106
29	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
30	Science case for the Einstein telescope. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 050-050.	5.4	602
31	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. Astrophysical Journal Letters, 2020, 896, L44.	8.3	1,090
32	A comparison between short GRB afterglows and kilonova AT2017gfo: shedding light on kilonovae properties. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3379-3397.	4.4	52
33	GW190425: Observation of a Compact Binary Coalescence with Total Mass $3.4 M_{\odot}$. Astrophysical Journal Letters, 2020, 892, L3.	8.3	1,049
34	Structured Jets and X-Ray Plateaus in Gamma-Ray Burst Phenomena. Astrophysical Journal, 2020, 893, 88.	4.5	48
35	Search for the optical counterpart of the GW170814 gravitational wave event with the VLT Survey Telescope. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1731-1754.	4.4	3
36	High-latitude emission from the structured jet of γ -ray bursts observed off-axis. Astronomy and Astrophysics, 2020, 641, A61.	5.1	27

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37	Properties and Astrophysical Implications of the 150 M _☉ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	8.3	406
38	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 902, L21.	8.3	65
39	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. <i>Astrophysical Journal</i> , 2019, 879, 10.	4.5	88
40	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. <i>Astrophysical Journal</i> , 2019, 883, 149.	4.5	72
41	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	7.8	119
42	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019, 882, L24.	8.3	566
43	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
44	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019, 871, 90.	4.5	30
45	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO*. <i>Astrophysical Journal</i> , 2019, 875, 122.	4.5	61
46	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160.	4.5	97
47	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary Black-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019, 876, L7.	8.3	179
48	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019, 875, 161.	4.5	71
49	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019, 874, 163.	4.5	26
50	Compact radio emission indicates a structured jet was produced by a binary neutron star merger. <i>Science</i> , 2019, 363, 968-971.	12.6	272
51	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
52	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019, 886, 75.	4.5	29
53	A Precise Distance to the Host Galaxy of the Binary Neutron Star Merger GW170817 Using Surface Brightness Fluctuations. <i>Astrophysical Journal Letters</i> , 2018, 854, L31.	8.3	99
54	GW170817: implications for the local kilonova rate and for surveys from ground-based facilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4355-4360.	4.4	15

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55	The host galaxies of double compact objects merging in the local Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5324-5330.	4.4	37
56	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	7.8	77
57	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101.	7.8	1,473
58	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ ($h(t)$) Tj ETQq0 0 0 rgBT/Overlock 10 Tf	4.0	41
59	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	7.8	85
60	The THESEUS space mission concept: science case, design and expected performances. <i>Advances in Space Research</i> , 2018, 62, 191-244.	2.6	133
61	THESEUS: A key space mission concept for Multi-Messenger Astrophysics. <i>Advances in Space Research</i> , 2018, 62, 662-682.	2.6	56
62	Science with e-ASTROGAM. <i>Journal of High Energy Astrophysics</i> , 2018, 19, 1-106.	6.7	177
63	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	4.0	98
64	The e-ASTROGAM mission. <i>Experimental Astronomy</i> , 2017, 44, 25-82.	3.7	167
65	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
66	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	7.8	84
67	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	4.5	131
68	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	2.4	69
69	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101.	7.8	1,600
70	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. <i>Astrophysical Journal</i> , 2017, 847, 47.	4.5	46
71	Spectroscopic identification of r-process nucleosynthesis in a double neutron-star merger. <i>Nature</i> , 2017, 551, 67-70.	27.8	715
72	The unpolarized macronova associated with the gravitational wave event GW 170817. <i>Nature Astronomy</i> , 2017, 1, 791-794.	10.1	75

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73	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017, 119, 161101.	7.8	6,413
74	Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	8.3	2,805
75	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L13.	8.3	2,314
76	Where and When: Optimal Scheduling of the Electromagnetic Follow-up of Gravitational-wave Events Based on Counterpart Light-curve Models. <i>Astrophysical Journal</i> , 2017, 846, 62.	4.5	28
77	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
78	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	8.3	189
79	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	8.3	156
80	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017, 118, 221101.	7.8	1,987
81	Optical photometry and spectroscopy of the low-luminosity, broad-lined Ic supernova iPTF15dld. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1848-1856.	4.4	4
82	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , 2017, 32, 1744003.	1.5	6
83	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	8.3	73
84	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35.	8.3	968
85	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1.	8.3	230
86	GW150914: FIRST SEARCH FOR THE ELECTROMAGNETIC COUNTERPART OF A GRAVITATIONAL-WAVE EVENT BY THE TOROS COLLABORATION. <i>Astrophysical Journal Letters</i> , 2016, 828, L16.	8.3	16
87	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	8.3	210
88	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21.	8.3	146
89	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	7.8	269
90	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	7.8	466

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91	SUPPLEMENT: α LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8.	7.7	44
92	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	7.8	1,224
93	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	7.8	673
94	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	7.8	2,701
95	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22.	8.3	633
96	Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012.	4.0	1,029
97	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39.	4.5	66
98	Advanced Virgo: a second-generation interferometric gravitational wave detector. Classical and Quantum Gravity, 2015, 32, 024001.	4.0	2,530
99	Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator. Classical and Quantum Gravity, 2014, 31, 165013.	4.0	10
100	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7.	7.7	57
101	The detection efficiency of on-axis short gamma-ray burst optical afterglows triggered by aLIGO/Virgo. Monthly Notices of the Royal Astronomical Society, 2014, 445, 3575-3580.	4.4	9
102	Dynamics of stellar black holes in young star clusters with different metallicities - II. Black hole-black hole binaries. Monthly Notices of the Royal Astronomical Society, 2014, 441, 3703-3717.	4.4	195
103	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. Physical Review Letters, 2014, 112, 131101.	7.8	68
104	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009–2010 LIGO and Virgo Data. Physical Review Letters, 2014, 113, 231101.	7.8	86
105	Implementation of an F -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. Classical and Quantum Gravity, 2014, 31, 165014.	4.0	34
106	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014, 785, 119.	4.5	125
107	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 115004.	4.0	42
108	The Swift gamma-ray burst redshift distribution: selection biases and optical brightness evolution at high z ?. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2141-2149.	4.4	46

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109	The Swift short gamma-ray burst rate density: implications for binary neutron star merger rates. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2668-2673.	4.4	108
110	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28.	7.7	62
111	The characterization of Virgo data and its impact on gravitational-wave searches. Classical and Quantum Gravity, 2012, 29, 155002.	4.0	73
112	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. Astrophysical Journal, 2012, 760, 12.	4.5	104
113	Virgo: a laser interferometer to detect gravitational waves. Journal of Instrumentation, 2012, 7, P03012-P03012.	1.2	257
114	Status of the Virgo project. Classical and Quantum Gravity, 2011, 28, 114002.	4.0	171