

Marica Branchesi

List of Publications by Year in descending order

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114
papers

40,418
citations

15504

65
h-index

19749

117
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119
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119
docs citations

119
times ranked

14626
citing authors

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	7.8	466
22	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	8.3	453
23	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	26.7	447
24	Properties and Astrophysical Implications of the 150 M_{\odot} Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	8.3	406
25	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
26	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	7.8	269
27	Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , 2012, 7, P03012-P03012.	1.2	257
28	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
29	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
30	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	8.3	210
31	Dynamics of stellar black holes in young star clusters with different metallicities - II. Black hole-black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3703-3717.	4.4	195
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	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
34	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
35	Science with e-ASTROGAM. <i>Journal of High Energy Astrophysics</i> , 2018, 19, 1-106.	6.7	177
36	Status of the Virgo project. <i>Classical and Quantum Gravity</i> , 2011, 28, 114002.	4.0	171

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37	The e-ASTROGAM mission. <i>Experimental Astronomy</i> , 2017, 44, 25-82.	3.7	167
38	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	8.3	156
39	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
40	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
41	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
42	The THESEUS space mission concept: science case, design and expected performances. <i>Advances in Space Research</i> , 2018, 62, 191-244.	2.6	133
43	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	4.5	131
44	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014, 785, 119.	4.5	125
45	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	7.8	119
46	The Swift short gamma-ray burst rate density: implications for binary neutron star merger rates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2668-2673.	4.4	108
47	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. <i>Astrophysical Journal</i> , 2012, 760, 12.	4.5	104
48	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
49	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	4.0	98
50	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
51	Gravitational-wave physics and astronomy in the 2020s and 2030s. <i>Nature Reviews Physics</i> , 2021, 3, 344-366.	26.6	96
52	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
53	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
54	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009-2010 LIGO and Virgo Data. <i>Physical Review Letters</i> , 2014, 113, 231101.	7.8	86

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55	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	7.8	85
56	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	7.8	84
57	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	7.8	77
58	The unpolarized macronova associated with the gravitational wave event GW 170817. <i>Nature Astronomy</i> , 2017, 1, 791-794.	10.1	75
59	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012, 29, 155002.	4.0	73
60	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	8.3	73
61	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
62	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
63	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	2.4	69
64	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2014, 112, 131101.	7.8	68
65	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015, 813, 39.	4.5	66
66	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 902, L21.	8.3	65
67	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 28.	7.7	62
68	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
69	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO's Virgo's Third Observing Run. <i>Astrophysical Journal</i> , 2021, 923, 14.	4.5	59
70	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 7.	7.7	57
71	THESEUS: A key space mission concept for Multi-Messenger Astrophysics. <i>Advances in Space Research</i> , 2018, 62, 662-682.	2.6	56
72	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

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73	A comparison between short GRB afterglows and kilonova AT2017gfo: shedding light on kilonovae properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3379-3397.	4.4	52
74	Structured Jets and X-Ray Plateaus in Gamma-Ray Burst Phenomena. <i>Astrophysical Journal</i> , 2020, 893, 88.	4.5	48
75	The Swift gamma-ray burst redshift distribution: selection biases and optical brightness evolution at high z ?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 2141-2149.	4.4	46
76	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
77	SUPPLEMENT: α -LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, <i>ApJL</i> , 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 8.	7.7	44
78	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014, 31, 115004.	4.0	42
79	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ (t) Tj ETQq1 1 0.784314 g_{BT} / Overlo	4.0	41
80	Lunar Gravitational-wave Antenna. <i>Astrophysical Journal</i> , 2021, 910, 1.	4.5	41
81	Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 921, 80.	4.5	39
82	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
83	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. <i>Physical Review Letters</i> , 2020, 125, 131101.	7.8	35
84	Implementation of an F -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014, 31, 165014.	4.0	34
85	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
86	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
87	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
88	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
89	Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537-6910. <i>Astrophysical Journal</i> , 2021, 922, 71.	4.5	29
90	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

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91	High-latitude emission from the structured jet of γ -ray bursts observed off-axis. <i>Astronomy and Astrophysics</i> , 2020, 641, A61.	5.1	27
92	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
93	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO's Virgo Run O3a. <i>Astrophysical Journal</i> , 2021, 915, 86.	4.5	20
94	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
95	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
96	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
97	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
98	Electromagnetic counterparts of compact binary mergers. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	13
99	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020, 893, 100.	4.5	12
100	Multi-messenger astrophysics with THESEUS in the 2030s. <i>Experimental Astronomy</i> , 2021, 52, 245-275.	3.7	12
101	Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator. <i>Classical and Quantum Gravity</i> , 2014, 31, 165013.	4.0	10
102	The detection efficiency of on-axis short gamma-ray burst optical afterglows triggered by aLIGO/Virgo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 3575-3580.	4.4	9
103	The advanced Virgo longitudinal control system for the O2 observing run. <i>Astroparticle Physics</i> , 2020, 116, 102386.	4.3	9
104	Gamma ray burst studies with THESEUS. <i>Experimental Astronomy</i> , 2021, 52, 277-308.	3.7	9
105	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
106	GrailQuest: hunting for atoms of space and time hidden in the wrinkle of Space-Time. <i>Experimental Astronomy</i> , 2021, 51, 1255-1297.	3.7	7
107	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , 2017, 32, 1744003.	1.5	6
108	Spectral index-flux relation for investigating the origins of steep decay in γ -ray bursts. <i>Nature Communications</i> , 2021, 12, 4040.	12.8	6

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109	Optical photometry and spectroscopy of the low-luminosity, broad-lined Ic supernova iPTF15dld. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1848-1856.	4.4	4
110	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
111	Breakthrough Multi-Messenger Astrophysics with the THESEUS Space Mission. Galaxies, 2022, 10, 60.	3.0	3
112	Multi Order Coverage data structure to plan multi-messenger observations. Astronomy and Computing, 2022, 39, 100547.	1.7	1
113	Electromagnetic Counterparts of Gravitational Waves in the Hz-kHz Range. , 2021, , 1-45.		0
114	Electromagnetic Counterparts of Gravitational Waves in the Hz-kHz Range. , 2022, , 947-991.		0