

Giulia Stratta

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129
papers

25,987
citations

56
h-index

140
g-index

140
ext. papers

31,118
ext. citations

7.2
avg, IF

4.9
L-index

#	Paper	IF	Citations
129	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
128	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103	7.4	2136
127	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017 , 848, L13	7.9	1614
126	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609
125	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017 , 119, 141101	7.4	1270
124	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
123	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
122	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
121	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2020 , 892, L3	7.9	591
120	THE SPECTRAL ENERGY DISTRIBUTION OFFERMIBRIGHT BLAZARS. <i>Astrophysical Journal</i> , 2010 , 716, 30-70	4.7	580
119	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
118	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
117	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
116	A gamma-ray burst at a redshift of z approximately 8.2. <i>Nature</i> , 2009 , 461, 1254-7	50.4	458
115	Spectroscopic identification of r-process nucleosynthesis in a double neutron-star merger. <i>Nature</i> , 2017 , 551, 67-70	50.4	444
114	A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017 , 551, 85-88	50.4	413
113	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016 , 19, 1	32.5	393

112	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	7.9	381
111	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
110	FERMI OBSERVATIONS OF GRB 090902B: A DISTINCT SPECTRAL COMPONENT IN THE PROMPT AND DELAYED EMISSION. <i>Astrophysical Journal</i> , 2009 , 706, L138-L144	4.7	322
109	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	253
108	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 833, L1	7.9	209
107	Observation of X-ray lines from a gamma-ray burst (GRB991216): evidence of moving ejecta from the progenitor. <i>Science</i> , 2000 , 290, 955-8	33.3	204
106	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
105	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
104	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
103	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121101	7.4	137
102	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	7.4	134
101	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 851, L16	7.9	133
100	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	7.9	130
99	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
98	THE ULTRA-LONG GAMMA-RAY BURST 111209A: THE COLLAPSE OF A BLUE SUPERGIANT?. <i>Astrophysical Journal</i> , 2013 , 766, 30	4.7	126
97	Gamma-ray bursts afterglows with energy injection from a spinning down neutron star. <i>Astronomy and Astrophysics</i> , 2011 , 526, A121	5.1	112
96	Absorption in Gamma-Ray Burst Afterglows. <i>Astrophysical Journal</i> , 2004 , 608, 846-864	4.7	110
95	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107

94	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	4.3	100
93	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93,	4.9	94
92	THE HIGHLY ENERGETIC EXPANSION OF SN 2010bh ASSOCIATED WITH GRB 100316D. <i>Astrophysical Journal</i> , 2012 , 753, 67	4.7	94
91	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	7.9	91
90	The THESEUS space mission concept: science case, design and expected performances. <i>Advances in Space Research</i> , 2018 , 62, 191-244	2.4	90
89	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016 , 93,	4.9	80
88	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019 , 871, L13	7.9	77
87	Detection of a Very Bright Optical Flare from the Gamma-Ray Burst GRB 050904 at Redshift 6.29. <i>Astrophysical Journal</i> , 2006 , 638, L71-L74	4.7	76
86	Dust Properties at $z = 6.3$ in the Host Galaxy of GRB 050904. <i>Astrophysical Journal</i> , 2007 , 661, L9-L12	4.7	75
85	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
84	eXTP: Enhanced X-ray Timing and Polarization mission 2016 ,		73
83	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7.4	68
82	A Comparative Study of the X-Ray Afterglow Properties of Optically Bright and Dark Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2003 , 592, 1018-1024	4.7	68
81	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
80	The optical afterglows and host galaxies of three short/hard gamma-ray bursts. <i>Astronomy and Astrophysics</i> , 2009 , 498, 711-721	5.1	64
79	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015-2017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10	4.7	63
78	A Flash in the Dark: UVES Very Large Telescope High-Resolution Spectroscopy of Gamma-Ray Burst Afterglows. <i>Astrophysical Journal</i> , 2005 , 624, 853-867	4.7	63
77	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019 , 875, 160	4.7	60

76	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
75	THE ULTRA-LONG GRB 111209A. II. PROMPT TO AFTERGLOW AND AFTERGLOW PROPERTIES. <i>Astrophysical Journal</i> , 2013 , 779, 66	4.7	59
74	A study of the prompt and afterglow emission of the short GRB 061201. <i>Astronomy and Astrophysics</i> , 2007 , 474, 827-835	5.1	59
73	THE PROMPT, HIGH-RESOLUTION SPECTROSCOPIC VIEW OF THE NAKED-EYE GRB080319B. <i>Astrophysical Journal</i> , 2009 , 694, 332-338	4.7	51
72	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7.9	50
71	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019 , 875, 161	4.7	49
70	Multicolor observations of the afterglow of the short/hard GRB 050724. <i>Astronomy and Astrophysics</i> , 2007 , 473, 77-84	5.1	49
69	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
68	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	4.7	46
67	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
66	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	4.7	42
65	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	4.3	41
64	The complex light curve of the afterglow of GRB071010A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 388, 347-356	4.3	41
63	UVES/VLT high resolution spectroscopy of GRB 050730 afterglow: probing the features of the GRB environment. <i>Astronomy and Astrophysics</i> , 2007 , 467, 629-639	5.1	41
62	Continuous optical monitoring during the prompt emission of GRB 060111B. <i>Astronomy and Astrophysics</i> , 2006 , 451, L39-L42	5.1	41
61	The seven year Swift-XRT point source catalog (1SWXRT). <i>Astronomy and Astrophysics</i> , 2013 , 551, A142	5.1	39
60	Observational constraints on the optical and near-infrared emission from the neutron star/black hole binary merger candidate S190814bv. <i>Astronomy and Astrophysics</i> , 2020 , 643, A113	5.1	39
59	On the Magnetar Origin of the GRBs Presenting X-Ray Afterglow Plateaus. <i>Astrophysical Journal</i> , 2018 , 869, 155	4.7	39

58	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8	8	38
57	THESEUS: A key space mission concept for Multi-Messenger Astrophysics. <i>Advances in Space Research</i> , 2018 , 62, 662-682	2.4	37
56	GRB 090902B: AFTERGLOW OBSERVATIONS AND IMPLICATIONS. <i>Astrophysical Journal</i> , 2010 , 714, 799-804	4.7	35
55	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ during the observing run O2. <i>Classical and Quantum Gravity</i> , 2018 , 35, 205004	3.3	35
54	The gamma-ray burst 050904: evidence for a termination shock?. <i>Astronomy and Astrophysics</i> , 2007 , 462, 565-573	5.1	33
53	Extinction properties of the X-ray bright/optically faint afterglow of GRB 020405. <i>Astronomy and Astrophysics</i> , 2005 , 441, 83-88	5.1	32
52	Early re-brightening of the afterglow of GRB 050525a. <i>Astronomy and Astrophysics</i> , 2005 , 439, L35-L38	5.1	31
51	Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	31
50	ARE ULTRA-LONG GAMMA-RAY BURSTS DIFFERENT?. <i>Astrophysical Journal</i> , 2015 , 800, 16	4.7	30
49	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	27
48	The Swift serendipitous survey in deep XRT GRB fields (SwiftFT). <i>Astronomy and Astrophysics</i> , 2011 , 528, A122	5.1	27
47	UNUSUAL CENTRAL ENGINE ACTIVITY IN THE DOUBLE BURST GRB 110709B. <i>Astrophysical Journal</i> , 2012 , 748, 132	4.7	26
46	GRB 110205A: ANATOMY OF A LONG GAMMA-RAY BURST. <i>Astrophysical Journal</i> , 2012 , 748, 59	4.7	25
45	GRB 070311: a direct link between the prompt emission and the afterglow. <i>Astronomy and Astrophysics</i> , 2007 , 474, 793-805	5.1	25
44	Early emission of rising optical afterglows: the case of GRB 060904B and GRB 070420. <i>Astronomy and Astrophysics</i> , 2008 , 483, 847-855	5.1	22
43	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	4.3	21
42	LOFT: the Large Observatory For X-ray Timing 2012 ,		21
41	Iron line signatures in X-ray afterglows of GRB by BeppoSAX. <i>Astronomy and Astrophysics</i> , 1999 , 138, 431-432		20

40	Constraining the rate and luminosity function of Swift gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 15-28	4.3	19
39	The 80 Ms follow-up of the X-ray afterglow of GRB 130427A challenges the standard forward shock model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, 1111-1122	4.3	18
38	Fall back accretion and energy injections in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 446, 3642-3650	4.3	17
37	Is GRB 050904 at $z = 6.3$ absorbed by dust?. <i>Astronomy and Astrophysics</i> , 2011 , 532, A45	5.1	17
36	High energy variability of 3C 273 during the AGILE multiwavelength campaign of December 2007–January 2008. <i>Astronomy and Astrophysics</i> , 2009 , 494, 49-61	5.1	17
35	Accretion in strong field gravity with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	17
34	A multiwavelength study of Swift GRB 060111B constraining the origin of its prompt optical emission. <i>Astronomy and Astrophysics</i> , 2009 , 503, 783-795	5.1	14
33	A quiescent galaxy at the position of the long GRB 050219A. <i>Astronomy and Astrophysics</i> , 2014 , 572, A47	5.1	12
32	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	4.3	12
31	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013. <i>Physical Review D</i> , 2016 , 93,	4.9	10
30	The Large Observatory for x-ray timing 2014 ,		9
29	INTEGRAL high-energy monitoring of the X-ray burster KS 1741–93*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 380, 615-620	4.3	9
28	Advanced Virgo Status. <i>Journal of Physics: Conference Series</i> , 2020 , 1342, 012010	0.3	8
27	The X-ray absorber of PKS 2126-158. <i>Astronomy and Astrophysics</i> , 2003 , 409, 57-64	5.1	8
26	X-ray flashes or soft gamma-ray bursts?. <i>Astronomy and Astrophysics</i> , 2007 , 461, 485-492	5.1	7
25	GRB 100614A and GRB 100615A: two extremely dark gamma-ray bursts. <i>Astronomy and Astrophysics</i> , 2011 , 532, A48	5.1	6
24	Can we quickly flag ultra-long gamma-ray bursts?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 486, 2471-2476	4.3	5
23	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , 2017 , 32, 1744003	1.2	5

22	Evidence for an anticorrelation between the duration of the shallow decay phase of GRB X-ray afterglows and redshift. <i>Astronomy and Astrophysics</i> , 2009 , 494, L9-L12	5.1	5
21	The THESEUS space mission: science goals, requirements and mission concept. <i>Experimental Astronomy</i> , 2021 , 1	1.3	5
20	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018 , 182, 02003	0.3	4
19	GRAWITA: VLT Survey Telescope observations of the gravitational wave sources GW150914 and GW151226. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 ,	4.3	3
18	Challenging the Forward Shock Model with the 80 Ms Follow up of the X-ray Afterglow of Gamma-Ray Burst 130427A. <i>Galaxies</i> , 2017 , 5, 6	2	3
17	The LOFT contribution to GRB science. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2013 , 239-240, 109-112		3
16	The TAROT archive: rising afterglows 2009 ,		3
15	Search for the optical counterpart of the GW170814 gravitational wave event with the VLT Survey Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 1731-1754	4.3	3
14	The puzzling temporally variable optical and X-ray afterglow of GRB 101024A. <i>Astronomy and Astrophysics</i> , 2011 , 530, A74	5.1	2
13	GRB980613 a Very Faint Burst with a Not So Faint Afterglow Detected by BeppoSAX201-203		2
12	Multi-messenger astrophysics with THESEUS in the 2030s. <i>Experimental Astronomy</i> ,1	1.3	2
11	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
10	Gamma ray burst studies with THESEUS. <i>Experimental Astronomy</i> ,1	1.3	2
9	Synergies of THESEUS with the large facilities of the 2030s and guest observer opportunities.. <i>Experimental Astronomy</i> , 2021 , 52, 407-437	1.3	2
8	Evidence for an anticorrelation between the duration of the shallow decay phase and the burst energetics 2010 ,		1
7	What's Next for VST: Electromagnetic Follow-Up of Gravitational Waves Events. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2016 , 297-302	0.3	1
6	Unveiling the enigma of ATLAS17aeu. <i>Astronomy and Astrophysics</i> , 2019 , 621, A81	5.1	0
5	Breakthrough Multi-Messenger Astrophysics with the THESEUS Space Mission. <i>Galaxies</i> , 2022 , 10, 60	2	0

- 4 GAME: GRB and All-sky Monitor Experiment. *International Journal of Modern Physics D*, **2014**, 23, 1430010.2
- 3 THE MOST PROMISING ASTROPHYSICAL SOURCES OF ELECTROMAGNETIC AND GRAVITATIONAL RADIATION **2017**, 330-334
- 2 The origin of the prompt optical emission in GRB 060111B. *Advances in Space Research*, **2011**, 47, 1413-1415
- 1 Singular Spectrum Analysis for Astronomical Time Series: Constructing a Parsimonious Hypothesis Test. *Thirty Years of Astronomical Discovery With UKIRT*, **2016**, 105-107 0.3