

Martina De Laurentis

List of Publications by Year in descending order

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92
papers

23,339
citations

57758

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93
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93
docs citations

93
times ranked

13616
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016, 116, 061102.	7.8	8,753
2	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
3	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
4	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016, 116, 221101.	7.8	1,224
5	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016, 6, .	8.9	898
6	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
7	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016, 116, 241102.	7.8	673
8	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016, 818, L22.	8.3	633
9	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	7.8	466
10	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
11	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	26.7	427
12	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016, 93, .	4.7	315
13	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	7.8	269
14	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
15	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
16	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	4.0	225
17	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	8.3	210
18	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

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19	BlackHoleCam: Fundamental physics of the galactic center. International Journal of Modern Physics D, 2017, 26, 1730001.	2.1	148
20	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR–BLACK HOLE MERGERS FROM ADVANCED LIGO’S FIRST OBSERVING RUN. Astrophysical Journal Letters, 2016, 832, L21.	8.3	146
21	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12.	4.5	131
22	Observing gravitational-wave transient GW150914 with minimal assumptions. Physical Review D, 2016, 93, .	4.7	119
23	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. Physical Review X, 2016, 6, .	8.9	106
24	Directly comparing GW150914 with numerical solutions of Einstein’s equations for binary black hole coalescence. Physical Review D, 2016, 94, .	4.7	102
25	Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002.	4.0	98
26	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO’s first observing run. Classical and Quantum Gravity, 2018, 35, 065010.	4.0	94
27	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, .	4.7	92
28	Constraints on cosmic strings using data from the first Advanced LIGO observing run. Physical Review D, 2018, 97, .	4.7	88
29	Directional Limits on Persistent Gravitational Waves from Advanced LIGO’s First Observing Run. Physical Review Letters, 2017, 118, 121102.	7.8	84
30	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. Physical Review D, 2017, 96, .	4.7	73
31	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. Physical Review D, 2017, 95, .	4.7	69
32	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
33	First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104.	7.8	68
34	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39.	4.5	66
35	All-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2017, 96, .	4.7	64
36	SUPPLEMENT: “THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914” (2016, ApJL, 833, L1). Astrophysical Journal, Supplement Series, 2016, 227, 14.	7.7	63

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37	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
38	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017, 96, .	4.7	60
39	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017, 95, .	4.7	59
40	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
41	Quantum tomography as a tool for the characterization of optical devices. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, S127-S132.	1.4	49
42	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015, 91, .	4.7	47
43	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
44	SUPPLEMENT: âœLOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914âœ (2016, <i>ApJL</i> , 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 8.	7.7	44
45	Evolution of gravitons in accelerating cosmologies: The case of extended gravity. <i>Physical Review D</i> , 2017, 95, .	4.7	42
46	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015, 91, .	4.7	37
47	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
48	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
49	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , 2016, 93, .	4.7	32
50	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
51	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016, 93, .	4.7	29
52	Tomographic characterization of OPO sources close to threshold. <i>Optics Express</i> , 2005, 13, 948.	3.4	28
53	The Advanced Virgo detector. <i>Journal of Physics: Conference Series</i> , 2015, 610, 012014.	0.4	27
54	Optical Measurement Techniques of Recombination Lifetime Based on the Free Carriers Absorption Effect. <i>Journal of Solid State Physics</i> , 2014, 2014, 1-19.	0.2	24

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55	Towards weighing the condensation energy to ascertain the Archimedes force of vacuum. <i>Physical Review D</i> , 2014, 90, .	4.7	22
56	Approaching Free Fall on Two Degrees of Freedom: Simultaneous Measurement of Residual Force and Torque on a Double Torsion Pendulum. <i>Physical Review Letters</i> , 2016, 116, 051104.	7.8	20
57	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. <i>Physical Review D</i> , 2017, 95, .	4.7	19
58	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. <i>Classical and Quantum Gravity</i> , 2018, 35, 065009.	4.0	18
59	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. <i>Physical Review D</i> , 2016, 93, .	4.7	17
60	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013. <i>Physical Review D</i> , 2016, 93, .	4.7	14
61	Progress in a Vacuum Weight Search Experiment. <i>Physics</i> , 2020, 2, 1-13.	1.4	11
62	Actuation crosstalk in free-falling systems: Torsion pendulum results for the engineering model of the LISA pathfinder gravitational reference sensor. <i>Astroparticle Physics</i> , 2018, 97, 19-26.	4.3	9
63	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018, 182, 02003.	0.3	9
64	Advanced Virgo Status. <i>Journal of Physics: Conference Series</i> , 2020, 1342, 012010.	0.4	9
65	Determination of single mode condition in dielectric rib waveguide with large cross section by finite element analysis. <i>Journal of Computational Electronics</i> , 2007, 6, 285-287.	2.5	7
66	The Archimedes experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 824, 646-647.	1.6	7
67	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
68	Structural and optoelectrical characterization of SiO ₂ /SiO ₂ multilayers with applications in all Si tandem solar cells. <i>Journal of Applied Physics</i> , 2010, 107, 064321.	2.5	6
69	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , 2017, 32, 1744003.	1.5	6
70	Picoradiant tiltmeter and direct ground tilt measurements at the Sos Enattos site. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
71	Casimir energy for two and three superconducting coupled cavities: Numerical calculations. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	4
72	Improving sensitivity and duty-cycle of a double torsion pendulum. <i>Classical and Quantum Gravity</i> , 2019, 36, 125004.	4.0	3

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73	Thermal noise study of a radiation pressure noise limited optical cavity with fused silica mirror suspensions. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	3
74	Automated source of squeezed vacuum states driven by finite state machine based software. <i>Review of Scientific Instruments</i> , 2021, 92, 054504.	1.3	3
75	Towards ponderomotive squeezing with SIPS experiment. <i>Physica Scripta</i> , 2021, 96, 114007.	2.5	3
76	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
77	Electrically induced Bragg Modulator for ultrafast light modulation in Indium Phosphide devices. , 2006, , .		1
78	Achieving Extreme Etching Rates by Overcoming Silicon Passivity. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H185.	2.2	1
79	Liquid actuated gravity experiments. <i>International Journal of Modern Physics D</i> , 2019, 28, 1950115.	2.1	1
80	Tomographic recovering of radiation state's Wigner distribution: a novel tool for characterizing optical devices. , 0, , .		0
81	InP/InGaAsP electrically controlled Bragg modulator for over 40-Gbit/s modulation speed. , 2006, 6350, 71.		0
82	Bragg Gratings Filter with Apodized Duty-Cycle for 10GHz Channel Spacing DWDM System. , 2007, , .		0
83	Electrically induced Bragg Reflectors in InP/InGaAsP waveguides as ultrafast optoelectronic modulators. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 3, .	1.9	0
84	Electron beam lithography for nanofabrication of metal induced Bragg reflectors. , 2011, , .		0
85	Floating field ring technique applied to enhance fill factor of silicon photomultiplier elementary cell. , 2011, , .		0
86	Double cavity refractive index photonic crystal sensor temperature calibrated. , 2012, , .		0
87	Transmission line pulse system for avalanche characterization of high power semiconductor devices. , 2013, , .		0
88	The POLIS interferometer for ponderomotive squeezed light generation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 824, 614-616.	1.6	0
89	A two-stage torsion pendulum for ground testing free fall conditions on two degrees of freedom. <i>Journal of Physics: Conference Series</i> , 2017, 840, 012035.	0.4	0
90	A two-stage torsion pendulum for ground testing free fall conditions on two degrees of freedom. <i>Nuclear and Particle Physics Proceedings</i> , 2017, 291-293, 134-139.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Analysis of the Drever-Pound-Hall technique for the simultaneous detection of the detuning of more cavities on a single channel. Proceedings of SPIE, 2013, , .	0.8	0
92	Thermally controlled optical resonator for vacuum squeezed states separation. Applied Optics, 2022, 61, 5226.	1.8	0