Martina De Laurentis

List of Publications by Year
in descending order

92	23,339	57758 44	66911 78
papers	citations	h-index	g-index

93	93	93	13616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermally controlled optical resonator for vacuum squeezed states separation. Applied Optics, 2022, 61, 5226.	1.8	0
2	Automated source of squeezed vacuum states driven by finite state machine based software. Review of Scientific Instruments, 2021, 92, 054504.	1.3	3
3	Towards ponderomotive squeezing with SIPS experiment. Physica Scripta, 2021, 96, 114007.	2.5	3
4	GrailQuest: hunting for atoms of space and time hidden in the wrinkle of Space-Time. Experimental Astronomy, 2021, 51, 1255-1297.	3.7	7
5	Picoradiant tiltmeter and direct ground tilt measurements at the Sos Enattos site. European Physical Journal Plus, 2021, 136, 1.	2.6	5
6	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
7	Thermal noise study of a radiation pressure noise limited optical cavity with fused silica mirror suspensions. European Physical Journal D, 2020, 74, 1.	1.3	3
8	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
9	Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010.	0.4	9
10	Progress in a Vacuum Weight Search Experiment. Physics, 2020, 2, 1-13.	1.4	11
11	Liquid actuated gravity experiments. International Journal of Modern Physics D, 2019, 28, 1950115.	2.1	1
12	Improving sensitivity and duty-cycle of a double torsion pendulum. Classical and Quantum Gravity, 2019, 36, 125004.	4.0	3
13	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. Physical Review Letters, 2019, 123, 231108.	7.8	254
14	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGOâ€™s first observing run. Classical and Quantum Gravity, 2018, 35, 065010.	4.0	94
15	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. Classical and Quantum Gravity, 2018, 35, 065009.	4.0	18
16	First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104.	7.8	68
17	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
18	Actuation crosstalk in free-falling systems: Torsion pendulum results for the engineering model of the LISA pathfinder gravitational reference sensor. Astroparticle Physics, 2018, 97, 19-26.	4.3	9

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19	Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.	0.3	9
20	Constraints on cosmic strings using data from the first Advanced LIGO observing run. Physical Review D, 2018, 97, .	4.7	88
21	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
22	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. Physical Review D, 2017, 95, .	4.7	69
23	Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002.	4.0	98
24	A two-stage torsion pendulum for ground testing free fall conditions on two degrees of freedom. Journal of Physics: Conference Series, 2017, 840, 012035.	0.4	0
25	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121101.	7.8	194
26	Directional Limits on Persistent Gravitational Waves from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121102.	7.8	84
27	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12.	4.5	131
28	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
29	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. Astrophysical Journal, 2017, 847, 47.	4.5	46
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 periodic gravitational waves in the O1 LIGO data. Physical Review D, 2017, 96, .	4.7	64
32	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
33	Casimir energy for two and three superconducting coupled cavities: Numerical calculations. European Physical Journal Plus, 2017, 132, 1.	2.6	4
34	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101.	7.8	1,987
35	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. Physical Review D, 2017, 95, .	4.7	19
36	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. Physical Review D, 2017, 95, .	4.7	59

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37	Evolution of gravitons in accelerating cosmologies: The case of extended gravity. Physical Review D, 2017, 95, .	4.7	42
38	BlackHoleCam: Fundamental physics of the galactic center. International Journal of Modern Physics D, 2017, 26, 1730001.	2.1	148
39	Status of the Advanced Virgo gravitational wave detector. International Journal of Modern Physics A, 2017, 32, 1744003.	1.5	6
40	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. Physical Review D, 2017, 96, .	4.7	60
41	A two-stage torsion pendulum for ground testing free fall conditions on two degrees of freedom. Nuclear and Particle Physics Proceedings, 2017, 291-293, 134-139.	0.5	0
42	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
43	SUPPLEMENT: â€œTHE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914â€•(2016, ApJL, 833, L1). Astrophysical Journal, Supplement Series, 2016, 227, 14.	7.7	63
44	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
45	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. Physical Review X, 2016, 6, .	8.9	106
46	Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. Physical Review D, 2016, 94, .	4.7	31
47	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1.	8.3	230
48	The Archimedes experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 646-647.	1.6	7
49	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 826, L13.	8.3	210
50	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. Physical Review D, 2016, 94, .	4.7	35
51	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. Physical Review D, 2016, 94, .	4.7	60
52	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARâ€“BLACK HOLE MERGERS FROM ADVANCED LIGOâ€™S FIRST OBSERVING RUN. Astrophysical Journal Letters, 2016, 832, L21.	8.3	146
53	Directly comparing GW150914 with numerical solutions of Einsteinâ€™s equations for binary black hole coalescence. Physical Review D, 2016, 94, .	4.7	102
54	All-sky search for long-duration gravitational wave transients with initial LIGO. Physical Review D, 2016, 93, .	4.7	29

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55	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. Physical Review D, 2016, 93, .	4.7	17
56	First low frequency all-sky search for continuous gravitational wave signals. Physical Review D, 2016, 93, .	4.7	32
57	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. Physical Review D, 2016, 93, .	4.7	315
58	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007â€“2013. Physical Review D, 2016, 93, .	4.7	14
59	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, .	4.7	92
60	Approaching Free Fall on Two Degrees of Freedom: Simultaneous Measurement of Residual Force and Torque on a Double Torsion Pendulum. Physical Review Letters, 2016, 116, 051104.	7.8	20
61	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102.	7.8	269
62	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103.	7.8	466
63	SUPPLEMENT: â€œLOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914â€•(2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8.	7.7	44
64	Observing gravitational-wave transient GW150914 with minimal assumptions. Physical Review D, 2016, 93, .	4.7	119
65	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	7.8	1,224
66	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	7.8	673
67	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	7.8	2,701
68	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. Physical Review X, 2016, 6, .	8.9	898
69	The POLIS interferometer for ponderomotive squeezed light generation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 614-616.	1.6	0
70	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22.	8.3	633
71	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	7.8	8,753
72	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. Physical Review D, 2015, 91, .	4.7	37

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73	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. Physical Review D, 2015, 91, .	4.7	47
74	The Advanced Virgo detector. Journal of Physics: Conference Series, 2015, 610, 012014.	0.4	27
75	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39.	4.5	66
76	Optical Measurement Techniques of Recombination Lifetime Based on the Free Carriers Absorption Effect. Journal of Solid State Physics, 2014, 2014, 1-19.	0.2	24
77	Towards weighing the condensation energy to ascertain the Archimedes force of vacuum. Physical Review D, 2014, 90, .	4.7	22
78	Transmission line pulse system for avalanche characterization of high power semiconductor devices. , 2013, , .		0
79	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
80	Double cavity refractive index photonic crystal sensor temperature calibrated. , 2012, , .		0
81	Electron beam lithography for nanofabrication of metal induced Bragg reflectors. , 2011, , .		0
82	Floating field ring technique applied to enhance fill factor of silicon photomultiplier elementary cell. , 2011, , .		0
83	Achieving Extreme Etching Rates by Overcoming Silicon Passivity. Electrochemical and Solid-State Letters, 2010, 13, H185.	2.2	1
84	Structural and optoelectronical characterization of Siâ€“SiO2/SiO2 multilayers with applications in all Si tandem solar cells. Journal of Applied Physics, 2010, 107, 064321.	2.5	6
85	Bragg Gratings Filter with Apodized Duty-Cycle for 10GHz Channel Spacing DWDM System. , 2007, , .		0
86	Determination of single mode condition in dielectric rib waveguide with large cross section by finite element analysis. Journal of Computational Electronics, 2007, 6, 285-287.	2.5	7
87	Electrically induced Bragg Modulator for ultrafast light modulation in Indium Phosphide devices. , 2006, , .		1
88	InP/InGaAsP electrically controlled Bragg modulator for over 40-Gbit/s modulation speed. , 2006, 6350, 71.		0
89	Tomographic characterization of OPO sources close to threshold. Optics Express, 2005, 13, 948.	3.4	28
90	Quantum tomography as a tool for the characterization of optical devices. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S127-S132.	1.4	49

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91	Tomographic recovering of radiation state's Wigner distribution: a novel tool for characterizing optical devices. , 0, , .		0
92	Electrically induced Bragg Reflectors in InP/InGaAsP waveguides as ultrafast optoelectronic modulators. Journal of the European Optical Society-Rapid Publications, 0, 3, .	1.9	0