Maddalena Mantovani

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Advanced Virgo: a second-generation interferometric gravitational wave detector. Classical and Quantum Gravity, 2015, 32, 024001.	1.5	2,530
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	8.2	808
3	Sensitivity studies for third-generation gravitational wave observatories. Classical and Quantum Gravity, 2011, 28, 094013.	1.5	644
4	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	8.2	447
5	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	8.2	427
6	Virgo: a laser interferometer to detect gravitational waves. Journal of Instrumentation, 2012, 7, P03012-P03012.	0.5	257
7	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. Physical Review Letters, 2019, 123, 231108.	2.9	254
8	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	1.5	225
9	The Virgo status. Classical and Quantum Gravity, 2006, 23, S635-S642.	1.5	179
10	Status of the Virgo project. Classical and Quantum Gravity, 2011, 28, 114002.	1.5	171
11	Status of Virgo. Classical and Quantum Gravity, 2008, 25, 114045.	1.5	148
12	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. Astrophysical Journal Letters, 2019, 871, L13.	3.0	145
13	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	1.6	144
14	Virgo status. Classical and Quantum Gravity, 2008, 25, 184001.	1.5	116
15	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461.	1.6	90
16	Calibration and sensitivity of the Virgo detector during its second science run. Classical and Quantum Gravity, 2011, 28, 025005.	1.5	85
17	The status of VIRGO. Classical and Quantum Gravity, 2006, 23, S63-S69.	1.5	83
18	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	0.9	69

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19	Measurements of Superattenuator seismic isolation by Virgo interferometer. Astroparticle Physics, 2010, 33, 182-189.	1.9	62
20	Noise from scattered light in Virgo's second science run data. Classical and Quantum Gravity, 2010, 27, 194011.	1.5	59
21	Status of Virgo detector. Classical and Quantum Gravity, 2007, 24, S381-S388.	1.5	56
22	Status of Virgo. Classical and Quantum Gravity, 2005, 22, S869-S880.	1.5	54
23	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.	1.6	52
24	Calibration of advanced Virgo and reconstruction of the gravitational wave signal <i>h</i> (<i>t</i>) Tj ETQq0	0 0 rgBT /0	Dverlock 10 Tf
25	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. Physical Review Letters, 2020, 125, 131101.	2.9	35
26	The Virgo 3 km interferometer for gravitational wave detection. Journal of Optics, 2008, 10, 064009.	1.5	31
27	Status and perspectives of the Virgo gravitational wave detector. Journal of Physics: Conference Series, 2010, 203, 012074.	0.3	29
28	Search for gravitational waves associated with GRB 050915a using the Virgo detector. Classical and Quantum Gravity, 2008, 25, 225001.	1.5	28
29	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. Journal of Low Frequency Noise Vibration and Active Control, 2011, 30, 63-79.	1.3	28
30	The Advanced Virgo detector. Journal of Physics: Conference Series, 2015, 610, 012014.	0.3	27
31	The variable finesse locking technique. Classical and Quantum Gravity, 2006, 23, S85-S89.	1.5	22
32	Virgo upgrade investigations. Journal of Physics: Conference Series, 2006, 32, 223-229.	0.3	21
33	Vacuum-compatible low-loss Faraday isolator for efficient squeezed-light injection in laser-interferometer-based gravitational-wave detectors. Applied Optics, 2018, 57, 9705.	0.9	21
34	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
35	Experimental evidence for an optical spring. Physical Review A, 2006, 74, .	1.0	19
36	Gravitational waves by gamma-ray bursts and the Virgo detector: the case of GRB 050915a. Classical and Quantum Gravity, 2007, 24, S671-S679.	1.5	19

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37	Using the etalon effect for <i>in situ</i> balancing of the Advanced Virgo arm cavities. Classical and Quantum Gravity, 2009, 26, 025005.	1.5	17
38	One hertz seismic attenuation for low frequency gravitational waves interferometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 554, 546-554.	0.7	16
39	The Virgo automatic alignment system. Classical and Quantum Gravity, 2006, 23, S91-S101.	1.5	16
40	Lock acquisition of the Virgo gravitational wave detector. Astroparticle Physics, 2008, 30, 29-38.	1.9	16
41	Gravitational wave burst search in the Virgo C7 data. Classical and Quantum Gravity, 2009, 26, 085009.	1.5	16
42	VIRGO: a large interferometer for gravitational wave detection started its first scientific run. Journal of Physics: Conference Series, 2008, 120, 032007.	0.3	15
43	Interferometer Sensing and Control for the Advanced Virgo Experiment in the O3 Scientific Run. Galaxies, 2020, 8, 85.	1.1	15
44	Coincidence analysis between periodic source candidates in C6 and C7 Virgo data. Classical and Quantum Gravity, 2007, 24, S491-S499.	1.5	13
45	Measurement of the optical parameters of the Virgo interferometer. Applied Optics, 2007, 46, 3466.	2.1	13
46	First joint gravitational wave search by the AURIGA–EXPLORER–NAUTILUS–Virgo Collaboration. Classical and Quantum Gravity, 2008, 25, 205007.	1.5	13
47	Performance of the Virgo interferometer longitudinal control system during the second science run. Astroparticle Physics, 2011, 34, 521-527.	1.9	13
48	The NoEMi (Noise Frequency Event Miner) framework. Journal of Physics: Conference Series, 2012, 363, 012037.	0.3	12
49	Automatic Alignment for the first science run of the Virgo interferometer. Astroparticle Physics, 2010, 33, 131-139.	1.9	11
50	Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. Classical and Quantum Gravity, 2013, 30, 055017.	1.5	11
51	The Virgo Detector. AIP Conference Proceedings, 2005, , .	0.3	10
52	Improving the timing precision for inspiral signals found by interferometric gravitational wave detectors. Classical and Quantum Gravity, 2007, 24, S617-S625.	1.5	10
53	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. Classical and Quantum Gravity, 2009, 26, 204002.	1.5	10
54	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.	1.5	10

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55	Analysis of noise lines in the Virgo C7 data. Classical and Quantum Gravity, 2007, 24, S433-S443.	1.5	9
56	Status of coalescing binaries search activities in Virgo. Classical and Quantum Gravity, 2007, 24, 5767-5775.	1.5	9
57	Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.	0.1	9
58	The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386.	1.9	9
59	Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010.	0.3	9
60	Design and prototype tests of a seismic attenuation system for the advanced-LIGO output mode cleaner. Classical and Quantum Gravity, 2006, 23, S111-S118.	1.5	8
61	Extended-time-scale creep measurement on Maraging cantilever blade springs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 597-607.	0.7	8
62	Noise studies during the first Virgo science run and after. Classical and Quantum Gravity, 2008, 25, 184003.	1.5	8
63	Laser with an in-loop relative frequency stability of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mn> 1.0 </mml:mn> <mml:mo>× </mml:mo> <mml:msup> <mml:mrow> <mr a 100-ms time scale for gravitational-wave detection. Physical Review A. 2009. 79</mr </mml:mrow></mml:msup></mml:mrow></mml:math 	nl:mn>10	«/r
64	Virgo calibration and reconstruction of the gravitationnal wave strain during VSR1. Journal of Physics: Conference Series, 2010, 228, 012015.	0.3	8
65	A state observer for the Virgo inverted pendulum. Review of Scientific Instruments, 2011, 82, 094502.	0.6	8
66	NAP: a tool for noise data analysis. Application to Virgo engineering runs. Classical and Quantum Gravity, 2005, 22, S1041-S1049.	1.5	7
67	The status of coalescing binaries search code in Virgo, and the analysis of C5 data. Classical and Quantum Gravity, 2006, 23, S187-S196.	1.5	7
68	The Virgo interferometric gravitational antenna. Optics and Lasers in Engineering, 2007, 45, 478-487.	2.0	7
69	The Real-Time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. IEEE Transactions on Nuclear Science, 2008, 55, 302-310.	1.2	7
70	Sub-nanoradiant beam pointing monitoring and stabilization system for controlling input beam jitter in gravitational wave interferometers. Applied Optics, 2014, 53, 2906.	0.9	7
71	A simple line detection algorithm applied to Virgo data. Classical and Quantum Gravity, 2005, 22, S1189-S1196.	1.5	6
72	Automatic Alignment system during the second science run of the Virgo interferometer. Astroparticle Physics, 2011, 34, 327-332.	1.9	6

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73	Status of the Advanced Virgo gravitational wave detector. International Journal of Modern Physics A, 2017, 32, 1744003.	0.5	6
74	New algorithm for the Guided Lock technique for a high-Finesse optical cavity. Astroparticle Physics, 2020, 117, 102405.	1.9	6
75	Testing the detection pipelines for inspirals with Virgo commissioning run C4 data. Classical and Quantum Gravity, 2005, 22, S1139-S1148.	1.5	5
76	Length Sensing and Control in the Virgo Gravitational Wave Interferometer. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1985-1995.	2.4	5
77	Data Acquisition System of the Virgo Gravitational Waves Interferometric Detector. IEEE Transactions on Nuclear Science, 2008, 55, 225-232.	1.2	5
78	Characterization of the Virgo seismic environment. Classical and Quantum Gravity, 2012, 29, 025005.	1.5	5
79	A first study of environmental noise coupling to the Virgo interferometer. Classical and Quantum Gravity, 2005, 22, S1069-S1077.	1.5	4
80	Environmental noise studies in Virgo. Journal of Physics: Conference Series, 2006, 32, 80-88.	0.3	4
81	Data quality studies for burst analysis of Virgo data acquired during Weekly Science Runs. Classical and Quantum Gravity, 2007, 24, S415-S422.	1.5	4
82	Control of the laser frequency of the Virgo gravitational wave interferometer with an in-loop relative frequency stability of 1.0 × 10â^21 on a 100 ms time scale. , 2009, , .		4
83	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. International Journal of Modern Physics D, 2011, 20, 2075-2079.	0.9	4
84	Status of Virgo. Journal of Physics: Conference Series, 2006, 39, 32-35.	0.3	3
85	Testing Virgo burst detection tools on commissioning run data. Classical and Quantum Gravity, 2006, 23, S197-S205.	1.5	3
86	Evaluating mirror alignment systems using the optical sensing matrix. Journal of Physics: Conference Series, 2008, 122, 012026.	0.3	3
87	Temperature Control for an Intra-Mirror Etalon in Interferometric Gravitational Wave Detector Fabry–Perot Cavities. Galaxies, 2020, 8, 80.	1.1	3
88	Development of a Frequency Tunable Green Laser Source for Advanced Virgo+ Gravitational Waves Detector. Galaxies, 2020, 8, 87.	1.1	3
89	Experimental upper limit on the estimated thermal noise at low frequencies in a gravitational wave detector. Physical Review D, 2007, 76, .	1.6	2
90	Geophysical noise in the virgo gravitational antenna. Measurement Techniques, 2009, 52, 111-116.	0.2	2

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91	Noise monitor tools and their application to Virgo data. Journal of Physics: Conference Series, 2012, 363, 012024.	0.3	2
92	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
93	Methods of gravitational wave detection in the VIRGO Interferometer. , 2007, , .		1
94	The Real-time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. , 2007, , .		1
95	Status of the commissioning of the Virgo interferometer. , 2012, , .		1
96	A parallel in-time analysis system for Virgo Journal of Physics: Conference Series, 2006, 32, 35-43.	0.3	0
97	Normal/independent noise in VIRGO data. Classical and Quantum Gravity, 2006, 23, S829-S836.	1.5	0
98	Data Acquisition System of the Virgo Gravitational Waves Interferometric Detector. , 2007, , .		0
99	A cross-correlation method to search for gravitational wave bursts with AURIGA and Virgo. Classical and Quantum Gravity, 2008, 25, 114046.	1.5	0
100	Tools for noise characterization in Virgo. Journal of Physics: Conference Series, 2010, 243, 012004.	0.3	0
101	VIRGO DATA ANALYSIS FOR C6 AND C7 ENGINEERING RUNS. , 2008, , .		0
102	THE STATUS OF THE VIRGO GRAVITATIONAL WAVE DETECTOR. , 2008, , .		0