

# Roberto Passaquieti

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9457210/publications.pdf>

Version: 2024-02-01

129  
papers

10,274  
citations

126907

33  
h-index

32842

100  
g-index

129  
all docs

129  
docs citations

129  
times ranked

5775  
citing authors

#	ARTICLE	IF	CITATIONS
1	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
2	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
3	The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386.	4.3	9
4	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
5	Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010.	0.4	9
6	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. Astrophysical Journal Letters, 2019, 871, L13.	8.3	145
7	Vibration isolation system with a compact damping system for power recycling mirrors of KAGRA. Classical and Quantum Gravity, 2019, 36, 095015.	4.0	9
8	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
9	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ ( $t$ ) Tj ETQq1 1 0.784314 rgBT /Over 4.0 41	4.0	41
10	Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.	0.3	9
11	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
12	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
13	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
14	Status of the Advanced Virgo gravitational wave detector. International Journal of Modern Physics A, 2017, 32, 1744003.	1.5	6
15	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
16	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
17	The Advanced Virgo detector. Journal of Physics: Conference Series, 2015, 610, 012014.	0.4	27
18	Advanced Virgo: a second-generation interferometric gravitational wave detector. Classical and Quantum Gravity, 2015, 32, 024001.	4.0	2,530

#	ARTICLE	IF	CITATIONS
19	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
20	Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. <i>Classical and Quantum Gravity</i> , 2013, 30, 055017.	4.0	11
21	Characterization of the Virgo seismic environment. <i>Classical and Quantum Gravity</i> , 2012, 29, 025005.	4.0	5
22	Status of the commissioning of the Virgo interferometer. , 2012, , .		1
23	Noise monitor tools and their application to Virgo data. <i>Journal of Physics: Conference Series</i> , 2012, 363, 012024.	0.4	2
24	The NoEMi (Noise Frequency Event Miner) framework. <i>Journal of Physics: Conference Series</i> , 2012, 363, 012037.	0.4	12
25	Performance of $\alpha$ -Pisa $\alpha$ -ring laser gyro at the Virgo site. <i>Journal of Seismology</i> , 2012, 16, 757-766.	1.3	20
26	Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , 2012, 7, P03012-P03012.	1.2	257
27	Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , 2012, 29, 124013.	4.0	355
28	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. <i>International Journal of Modern Physics D</i> , 2011, 20, 2075-2079.	2.1	4
29	Measuring gravitomagnetic effects by a multi-ring-laser gyroscope. <i>Physical Review D</i> , 2011, 84, .	4.7	126
30	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2011, 30, 63-79.	2.9	28
31	Automatic Alignment system during the second science run of the Virgo interferometer. <i>Astroparticle Physics</i> , 2011, 34, 327-332.	4.3	6
32	Performance of the Virgo interferometer longitudinal control system during the second science run. <i>Astroparticle Physics</i> , 2011, 34, 521-527.	4.3	13
33	Sensitivity studies for third-generation gravitational wave observatories. <i>Classical and Quantum Gravity</i> , 2011, 28, 094013.	4.0	644
34	Calibration and sensitivity of the Virgo detector during its second science run. <i>Classical and Quantum Gravity</i> , 2011, 28, 025005.	4.0	85
35	A state observer for the Virgo inverted pendulum. <i>Review of Scientific Instruments</i> , 2011, 82, 094502.	1.3	8
36	Status of the Virgo project. <i>Classical and Quantum Gravity</i> , 2011, 28, 114002.	4.0	171

#	ARTICLE	IF	CITATIONS
37	Tools for noise characterization in Virgo. Journal of Physics: Conference Series, 2010, 243, 012004.	0.4	0
38	Virgo calibration and reconstruction of the gravitational wave strain during VSRI. Journal of Physics: Conference Series, 2010, 228, 012015.	0.4	8
39	Status and perspectives of the Virgo gravitational wave detector. Journal of Physics: Conference Series, 2010, 203, 012074.	0.4	29
40	High sensitivity rotation measurements with a mid-size laser gyroscope. Proceedings of SPIE, 2010, , .	0.8	1
41	Measurements of Superattenuator seismic isolation by Virgo interferometer. Astroparticle Physics, 2010, 33, 182-189.	4.3	62
42	Automatic Alignment for the first science run of the Virgo interferometer. Astroparticle Physics, 2010, 33, 131-139.	4.3	11
43	The third generation of gravitational wave observatories and their science reach. Classical and Quantum Gravity, 2010, 27, 084007.	4.0	287
44	The Einstein Telescope: a third-generation gravitational wave observatory. Classical and Quantum Gravity, 2010, 27, 194002.	4.0	1,211
45	Noise from scattered light in Virgo's second science run data. Classical and Quantum Gravity, 2010, 27, 194011.	4.0	59
46	Thermal control of a dual mode parametric sapphire transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 121-125.	3.0	0
47	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.	4.5	90
48	Control of the laser frequency of the Virgo gravitational wave interferometer with an in-loop relative frequency stability of $1.0 \times 10^{-21}$ on a 100 ms time scale. , 2009, , .		4
49	Thermal control of a dual mode parametric sapphire transducer. , 2009, , .		0
50	Laser with an in-loop relative frequency stability of $1.0 \times 10^{-21}$ on a 100-ms time scale for gravitational-wave detection. Physical Review A, 2009, 79, .	2.5	8
51	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. Classical and Quantum Gravity, 2009, 26, 204002.	4.0	10
52	Gravitational wave burst search in the Virgo C7 data. Classical and Quantum Gravity, 2009, 26, 085009.	4.0	16
53	Directional radiative cooling thermal compensation for gravitational wave interferometer mirrors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 530-537.	1.6	4
54	Lock acquisition of the Virgo gravitational wave detector. Astroparticle Physics, 2008, 30, 29-38.	4.3	16

#	ARTICLE	IF	CITATIONS
55	The Real-Time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. IEEE Transactions on Nuclear Science, 2008, 55, 302-310.	2.0	7
56	First joint gravitational wave search by the AURIGA“EXPLORER”NAUTILUS“Virgo Collaboration. Classical and Quantum Gravity, 2008, 25, 205007.	4.0	13
57	The Virgo 3 km interferometer for gravitational wave detection. Journal of Optics, 2008, 10, 064009.	1.5	31
58	A cross-correlation method to search for gravitational wave bursts with AURIGA and Virgo. Classical and Quantum Gravity, 2008, 25, 114046.	4.0	0
59	Search for gravitational waves associated with GRB 050915a using the Virgo detector. Classical and Quantum Gravity, 2008, 25, 225001.	4.0	28
60	Status of Virgo. Classical and Quantum Gravity, 2008, 25, 114045.	4.0	148
61	Virgo status. Classical and Quantum Gravity, 2008, 25, 184001.	4.0	116
62	Noise studies during the first Virgo science run and after. Classical and Quantum Gravity, 2008, 25, 184003.	4.0	8
63	Data Acquisition System of the Virgo Gravitational Waves Interferometric Detector. IEEE Transactions on Nuclear Science, 2008, 55, 225-232.	2.0	5
64	VIRGO: a large interferometer for gravitational wave detection started its first scientific run. Journal of Physics: Conference Series, 2008, 120, 032007.	0.4	15
65	Methods of gravitational wave detection in the VIRGO Interferometer. , 2007, , .		1
66	Improving the timing precision for inspiral signals found by interferometric gravitational wave detectors. Classical and Quantum Gravity, 2007, 24, S617-S625.	4.0	10
67	Gravitational waves by gamma-ray bursts and the Virgo detector: the case of GRB 050915a. Classical and Quantum Gravity, 2007, 24, S671-S679.	4.0	19
68	Coincidence analysis between periodic source candidates in C6 and C7 Virgo data. Classical and Quantum Gravity, 2007, 24, S491-S499.	4.0	13
69	Analysis of noise lines in the Virgo C7 data. Classical and Quantum Gravity, 2007, 24, S433-S443.	4.0	9
70	Data quality studies for burst analysis of Virgo data acquired during Weekly Science Runs. Classical and Quantum Gravity, 2007, 24, S415-S422.	4.0	4
71	Status of Virgo detector. Classical and Quantum Gravity, 2007, 24, S381-S388.	4.0	56
72	Status of coalescing binaries search activities in Virgo. Classical and Quantum Gravity, 2007, 24, 5767-5775.	4.0	9

#	ARTICLE	IF	CITATIONS
73	Measurement of the optical parameters of the Virgo interferometer. <i>Applied Optics</i> , 2007, 46, 3466.	2.1	13
74	Data Acquisition System of the Virgo Gravitational Waves Interferometric Detector. , 2007, , .		0
75	The Real-time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. , 2007, , .		1
76	Experimental upper limit on the estimated thermal noise at low frequencies in a gravitational wave detector. <i>Physical Review D</i> , 2007, 76, .	4.7	2
77	The Virgo interferometric gravitational antenna. <i>Optics and Lasers in Engineering</i> , 2007, 45, 478-487.	3.8	7
78	Status of Virgo. <i>Journal of Physics: Conference Series</i> , 2006, 39, 32-35.	0.4	3
79	Virgo upgrade investigations. <i>Journal of Physics: Conference Series</i> , 2006, 32, 223-229.	0.4	21
80	A parallel in-time analysis system for Virgo.. <i>Journal of Physics: Conference Series</i> , 2006, 32, 35-43.	0.4	0
81	Environmental noise studies in Virgo. <i>Journal of Physics: Conference Series</i> , 2006, 32, 80-88.	0.4	4
82	Length Sensing and Control in the Virgo Gravitational Wave Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2006, 55, 1985-1995.	4.7	5
83	The status of coalescing binaries search code in Virgo, and the analysis of C5 data. <i>Classical and Quantum Gravity</i> , 2006, 23, S187-S196.	4.0	7
84	Normal/independent noise in VIRGO data. <i>Classical and Quantum Gravity</i> , 2006, 23, S829-S836.	4.0	0
85	The variable finesse locking technique. <i>Classical and Quantum Gravity</i> , 2006, 23, S85-S89.	4.0	22
86	The Virgo automatic alignment system. <i>Classical and Quantum Gravity</i> , 2006, 23, S91-S101.	4.0	16
87	The status of VIRGO. <i>Classical and Quantum Gravity</i> , 2006, 23, S63-S69.	4.0	83
88	Testing Virgo burst detection tools on commissioning run data. <i>Classical and Quantum Gravity</i> , 2006, 23, S197-S205.	4.0	3
89	The Virgo status. <i>Classical and Quantum Gravity</i> , 2006, 23, S635-S642.	4.0	179
90	Measurement of the seismic attenuation performance of the VIRGO Superattenuator. <i>Astroparticle Physics</i> , 2005, 23, 557-565.	4.3	79

#	ARTICLE	IF	CITATIONS
91	Virgo and the worldwide search for gravitational waves. AIP Conference Proceedings, 2005, , .	0.4	2
92	The Virgo Detector. AIP Conference Proceedings, 2005, , .	0.4	10
93	A simple line detection algorithm applied to Virgo data. Classical and Quantum Gravity, 2005, 22, S1189-S1196.	4.0	6
94	A first study of environmental noise coupling to the Virgo interferometer. Classical and Quantum Gravity, 2005, 22, S1069-S1077.	4.0	4
95	Virgo status and commissioning results. Classical and Quantum Gravity, 2005, 22, S185-S191.	4.0	2
96	Status of Virgo. Classical and Quantum Gravity, 2005, 22, S869-S880.	4.0	54
97	NAP: a tool for noise data analysis. Application to Virgo engineering runs. Classical and Quantum Gravity, 2005, 22, S1041-S1049.	4.0	7
98	Testing the detection pipelines for inspirals with Virgo commissioning run C4 data. Classical and Quantum Gravity, 2005, 22, S1139-S1148.	4.0	5
99	Search for inspiralling binary events in the Virgo Engineering Run data. Classical and Quantum Gravity, 2004, 21, S709-S716.	4.0	13
100	First results of the low frequency facility experiment. Classical and Quantum Gravity, 2004, 21, S1099-S1106.	4.0	4
101	The VIRGO large mirrors: a challenge for low loss coatings. Classical and Quantum Gravity, 2004, 21, S935-S945.	4.0	30
102	Status of VIRGO. Classical and Quantum Gravity, 2004, 21, S385-S394.	4.0	89
103	Results of the Virgo central interferometer commissioning. Classical and Quantum Gravity, 2004, 21, S395-S402.	4.0	5
104	The last-stage suspension of the mirrors for the gravitational wave antenna Virgo. Classical and Quantum Gravity, 2004, 21, S425-S432.	4.0	5
105	Properties of seismic noise at the Virgo site. Classical and Quantum Gravity, 2004, 21, S433-S440.	4.0	25
106	A first test of a sine-Hough method for the detection of pulsars in binary systems using the E4 Virgo engineering run data. Classical and Quantum Gravity, 2004, 21, S717-S727.	4.0	1
107	Sensitivity of the Low Frequency Facility experiment around 10ÅHz. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 322, 1-9.	2.1	4
108	First locking of the Virgo central area interferometer with suspension hierarchical control. Astroparticle Physics, 2004, 20, 629-640.	4.3	19

#	ARTICLE	IF	CITATIONS
109	The commissioning of the central interferometer of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , 2004, 21, 1-22.	4.3	22
110	A local control system for the test masses of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , 2004, 20, 617-628.	4.3	22
111	Status of VIRGO. , 2004, 5500, 58.		2
112	Low-loss coatings for the VIRGO large mirrors. , 2004, , .		14
113	Status report of the low frequency facility experiment, Virgo R&D. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 318, 199-204.	2.1	6
114	The low frequency facility Fabry-Pérot cavity used as a speed-meter. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 316, 1-9.	2.1	6
115	Status of VIRGO. <i>Classical and Quantum Gravity</i> , 2003, 20, S609-S616.	4.0	9
116	Data analysis methods for non-Gaussian, nonstationary and nonlinear features and their application to VIRGO. <i>Classical and Quantum Gravity</i> , 2003, 20, S915-S924.	4.0	7
117	Last stage control and mechanical transfer function measurement of the VIRGO suspensions. <i>Review of Scientific Instruments</i> , 2002, 73, 2143-2149.	1.3	14
118	Status of the low frequency facility experiment. <i>Classical and Quantum Gravity</i> , 2002, 19, 1675-1682.	4.0	3
119	The present status of the VIRGO Central Interferometer*. <i>Classical and Quantum Gravity</i> , 2002, 19, 1421-1428.	4.0	85
120	Monitoring the acoustic emission of the blades of the mirror suspension for a gravitational wave interferometer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 301, 389-397.	2.1	14
121	Inertial control of the mirror suspensions of the VIRGO interferometer for gravitational wave detection. <i>Review of Scientific Instruments</i> , 2001, 72, 3653-3661.	1.3	52
122	Measurement of the VIRGO superattenuator performance for seismic noise suppression. <i>Review of Scientific Instruments</i> , 2001, 72, 3643-3652.	1.3	89
123	Measurement of the transfer function of the steering filter of the Virgo super attenuator suspension. <i>Review of Scientific Instruments</i> , 2001, 72, 3635-3642.	1.3	14
124	Virgo and interferometer for gravitational wave detection. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2000, 85, 241-247.	0.4	3
125	The maraging-steel blades of the Virgo super attenuator. <i>Measurement Science and Technology</i> , 2000, 11, 467-476.	2.6	31
126	Elastic and anelastic properties of Marval 18 steel. <i>Journal of Alloys and Compounds</i> , 2000, 310, 400-404.	5.5	4



#	ARTICLE	IF	CITATIONS
127	An inverted pendulum preisolator stage for the VIRGO suspension system. Review of Scientific Instruments, 1999, 70, 2507-2515.	1.3	82
128	Performances of an ultralow frequency vertical pre-isolator for the VIRGO seismic attenuation chains. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 420, 316-335.	1.6	13
129	Seismic isolation by mechanical filters at very low frequencies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 480-483.	1.6	7