Bas L Swinkels

List of Publications by Year in Descending Order

53 papers	3,778 citations	19 h-index	61 g-index
65 ext. papers	4,821 ext. citations	4.3 avg, IF	2.54 L-index

#	Paper	IF	Citations
53	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 909, 218	4.7	46
52	Advanced Virgo Status. *Journal of Physics: Conference Series*, **2020**, 1342, 012010	0.3	8
51	Scattered light noise characterisation at the Virgo interferometer with tvf-EMD adaptive algorithm. *Classical and Quantum Gravity*, **2020**, 37, 145011	3.3	5
50	New algorithm for the Guided Lock technique for a high-Finesse optical cavity. *Astroparticle Physics*, **2020**, 117, 102405	2.4	5
49	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2020**, 23, 3	32.5	144
48	Interferometer Sensing and Control for the Advanced Virgo Experiment in the O3 Scientific Run. *Galaxies*, **2020**, 8, 85	2	7
47	Ground motion prediction at gravitational wave observatories using archival seismic data. *Classical and Quantum Gravity*, **2019**, 36, 085005	3.3	7
46	Investigation of magnetic noise in advanced Virgo. *Classical and Quantum Gravity*, **2019**, 36, 225004	3.3	11
45	Non-fundamental noise sources. *International Journal of Population Studies*, **2019**, 185-196	0.1	
44	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2018**, 21, 3	32.5	543
43	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
42	Magnetic coupling to the advanced Virgo payloads and its impact on the low frequency sensitivity. *Review of Scientific Instruments*, **2018**, 89, 114501	1.7	9
41	Calibration of advanced Virgo and reconstruction of the gravitational wave signal h (t) during the observing run O2. *Classical and Quantum Gravity*, **2018**, 35, 205004	3.3	35
40	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
39	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	4.7	42
38	Status of the Advanced Virgo gravitational wave detector. *International Journal of Modern Physics A* , **2017**, 32, 1744003	1.2	5
37	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155

36	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393
35	The Advanced Virgo detector. *Journal of Physics: Conference Series*, **2015**, 610, 012014	0.3	18
34	Advanced Virgo: a second-generation interferometric gravitational wave detector. *Classical and Quantum Gravity*, **2015**, 32, 024001	3.3	1567
33	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	3.3	8
32	Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. *Classical and Quantum Gravity*, **2013**, 30, 055017	3.3	9
31	Characterization of the Virgo seismic environment. *Classical and Quantum Gravity*, **2012**, 29, 025005	3.3	4
30	The NoEMi (Noise Frequency Event Miner) framework. *Journal of Physics: Conference Series*, **2012**, 363, 012037	0.3	10
29	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. *International Journal of Modern Physics D*, **2011**, 20, 2075-2079	2.2	4
28	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. *Journal of Low Frequency Noise Vibration and Active Control*, **2011**, 30, 63-79	1.5	19
27	Automatic Alignment system during the second science run of the Virgo interferometer. *Astroparticle Physics*, **2011**, 34, 327-332	2.4	5
26	Performance of the Virgo interferometer longitudinal control system during the second science run. *Astroparticle Physics*, **2011**, 34, 521-527	2.4	10
25	Calibration and sensitivity of the Virgo detector during its second science run. *Classical and Quantum Gravity*, **2011**, 28, 025005	3.3	83
24	A state observer for the Virgo inverted pendulum. *Review of Scientific Instruments*, **2011**, 82, 094502	1.7	6
23	Status of the Virgo project. *Classical and Quantum Gravity*, **2011**, 28, 114002	3.3	140
22	Noise from scattered light in Virgo's second science run data. *Classical and Quantum Gravity*, **2010**, 27, 194011	3.3	31
21	Commissioning status of the Virgo interferometer. *Classical and Quantum Gravity*, **2010**, 27, 084002	3.3	18
20	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	4.7	79
19	Commissioning status of the Virgo interferometer. *Classical and Quantum Gravity*, **2010**, 27, 149801	3.3	4

18	Tools for noise characterization in Virgo. *Journal of Physics: Conference Series*, **2010**, 243, 012004	0.3	
17	Virgo calibration and reconstruction of the gravitationnal wave strain during VSR1. *Journal of Physics: Conference Series*, **2010**, 228, 012015	0.3	7
16	Status and perspectives of the Virgo gravitational wave detector. *Journal of Physics: Conference Series*, **2010**, 203, 012074	0.3	22
15	Measurements of Superattenuator seismic isolation by Virgo interferometer. *Astroparticle Physics*, **2010**, 33, 182-189	2.4	54
14	**2009**,		1
13	Laser with an in-loop relative frequency stability of 1.0□10□21 on a 100-ms time scale for gravitational-wave detection. *Physical Review A*, **2009**, 79,	2.6	6
12	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. *Classical and Quantum Gravity*, **2009**, 26, 204002	3.3	5
11	Gravitational wave burst search in the Virgo C7 data. *Classical and Quantum Gravity*, **2009**, 26, 085009	3.3	15
10	In-vacuum optical isolation changes by heating in a Faraday isolator. *Applied Optics*, **2008**, 47, 5853-61	0.2	10
9	A cross-correlation method to search for gravitational wave bursts with AURIGA and Virgo. *Classical and Quantum Gravity*, **2008**, 25, 114046	3.3	
8	Search for gravitational waves associated with GRB 050915a using the Virgo detector. *Classical and Quantum Gravity*, **2008**, 25, 225001	3.3	23
7	Virgo status. *Classical and Quantum Gravity*, **2008**, 25, 184001	3.3	110
6	Noise studies during the first Virgo science run and after. *Classical and Quantum Gravity*, **2008**, 25, 184003	3.3	6
5	Correcting movement errors in frequency-sweeping interferometry. *Optics Letters*, **2005**, 30, 2242-4	3	30
4	Absolute distance metrology for space interferometers **2005**,		1
3	Absolute distance metrology for space interferometers **2005**, 5879, 216		4
2	Absolute distance metrology for space interferometers **2004**,		3
1	Metrology concepts for a space interferometer mission: SMART-2 **2003**, 4852, 268		