Johannes F J Van Den Brand

List of Publications by Year
in descending order

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100 papers	8,538 citations	101543 36 h-index	42399 92 g-index
100 all docs	100 docs citations	100 times ranked	5719 citing authors

#	Article	IF	Citations
1	Advanced Virgo: a second-generation interferometric gravitational wave detector. Classical and Quantum Gravity, 2015, 32, 024001.	4.0	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.	26.7	808
3	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
4	Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013.	4.0	355
5	An upper limit on the stochastic gravitational-wave background of cosmological origin. Nature, 2009, 460, 990-994.	27.8	303
6	Evidence for a Single-Spin Azimuthal Asymmetry in Semi-inclusive Pion Electroproduction. Physical Review Letters, 2000, 84, 4047-4051.	7.8	256
7	Measurement of the Beam-Spin Azimuthal Asymmetry Associated with Deeply-Virtual Compton Scattering. Physical Review Letters, 2001, 87, .	7.8	253
8	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
9	Charge Form Factor of the Neutron from the Reaction2Hâ†'(eâ†',eâ€²n)p. Physical Review Letters, 1999, 82, 4988-4991.	7.8	191
10	Flavor Asymmetry of the Light Quark Sea from Semi-inclusive Deep-Inelastic Scattering. Physical Review Letters, 1998, 81, 5519-5523.	7.8	176
11	Status of the Virgo project. Classical and Quantum Gravity, 2011, 28, 114002.	4.0	171
12	Status of Virgo. Classical and Quantum Gravity, 2008, 25, 114045.	4.0	148
13	Single-spin azimuthal asymmetries in electroproduction of neutral pions in semi-inclusive deep-inelastic scattering. Physical Review D, 2001, 64, .	4.7	147
14	Momentum transfer dependence of nuclear transparency from the quasielasticC12(e,eâ€™p) reaction. Physical Review Letters, 1994, 72, 1986-1989.	7.8	123
15	Polarization Transfer in theHe4(eâ†',eâ€²pâ†')H3Reaction up toQ2=2.6â€‰â€Šâ€Š(GeV/c)2. Physical Review Letters, 2003, 91, 052301.	7.8	117
16	Virgo status. Classical and Quantum Gravity, 2008, 25, 184001.	4.0	116
17	Measurement of the Protonâ€™s Electric to Magnetic Form Factor Ratio fromHâ†'1(eâ†',eâ€²p). Physical Review Letters, 2007, 98, 052301.	7.8	107
18	Effect of the Nuclear Medium on the Proton Investigated with the ReactionC12(e,eâ€²p)B11. Physical Review Letters, 1986, 57, 182-185.	7.8	100

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19	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
20	Calibration and sensitivity of the Virgo detector during its second science run. Classical and Quantum Gravity, 2011, 28, 025005.	4.0	85
21	Measurement of Tensor Analyzing Powers for Elastic Electron Scattering from a Polarized2H Target Internal to a Storage Ring. Physical Review Letters, 1996, 77, 2630-2633.	7.8	80
22	Evidence for partial occupancy of the 3s1/2proton orbit inPb208. Physical Review Letters, 1987, 58, 1088-1091.	7.8	79
23	Construction of KAGRA: an underground gravitational-wave observatory. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	73
24	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
25	Measurement ofT20in Elastic Electron-Deuteron Scattering. Physical Review Letters, 1999, 82, 3755-3758.	7.8	65
26	Nuclear-density dependence of the electron-proton coupling. Physical Review Letters, 1987, 58, 1727-1730.	7.8	64
27	Relative3sSpectroscopic Strength inPb206andPb208Studied with the (e,eâ€²p) Knockout Reaction. Physical Review Letters, 1986, 57, 186-189.	7.8	61
28	Noise from scattered light in Virgo's second science run data. Classical and Quantum Gravity, 2010, 27, 194011.	4.0	59
29	Two-Body Photodisintegration of the Deuteron up to 2.8 GeV. Physical Review Letters, 1995, 74, 646-649.	7.8	57
30	ReactionLi6(e,e'd)4Heand theÎ±â^'dMomentum Distribution in the Ground State ofLi6. Physical Review Letters, 1986, 57, 2367-2370.	7.8	55
31	Observation of a Coherence Length Effect in ExclusiveÏ0Electroproduction. Physical Review Letters, 1999, 82, 3025-3029.	7.8	53
32	Electrodisintegration ofHe4Studied with the ReactionHe4(e,eâ€²p)H3. Physical Review Letters, 1988, 60, 2006-2009.	7.8	52
33	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
34	Evidence for Quark-Hadron Duality in the Proton Spin AsymmetryA1. Physical Review Letters, 2003, 90, 092002.	7.8	49
35	Improving the sensitivity of future GW observatories in the 1â€“10ÂHz band: Newtonian and seismic noise. General Relativity and Gravitation, 2011, 43, 623-656.	2.0	46
36	Determination of the neutron electric form factor in quasielastic scattering of polarized electrons from polarizedHe3. Physical Review C, 1991, 44, R571-R574.	2.9	40

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37	Measurement of longitudinal spin transfer toÎ›hyperons in deep-inelastic lepton scattering. Physical Review D, 2001, 64, .	4.7	36
38	Inclusive electron scattering from nuclei atxâ‰ƒ1. Physical Review C, 1996, 53, 2248-2251.	2.9	33
39	Measurement of QuasielasticHe3(pâ†',ÂpN)Scattering from PolarizedHe3and the Three-Body Ground State Spin Structure. Physical Review Letters, 1995, 74, 502-505.	7.8	32
40	The Virgo 3 km interferometer for gravitational wave detection. Journal of Optics, 2008, 10, 064009.	1.5	31
41	Status and perspectives of the Virgo gravitational wave detector. Journal of Physics: Conference Series, 2010, 203, 012074.	0.4	29
42	Mechanism of the reactionHe4(e,eâ€™d)2H. Physical Review Letters, 1991, 67, 18-21.	7.8	28
43	Search for gravitational waves associated with GRB 050915a using the Virgo detector. Classical and Quantum Gravity, 2008, 25, 225001.	4.0	28
44	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. Journal of Low Frequency Noise Vibration and Active Control, 2011, 30, 63-79.	2.9	28
45	The Advanced Virgo detector. Journal of Physics: Conference Series, 2015, 610, 012014.	0.4	27
46	Characterization of the seismic environment at the Sanford Underground Laboratory, South Dakota. Classical and Quantum Gravity, 2010, 27, 225011.	4.0	26
47	Newtonian noise and ambient ground motion for gravitational wave detectors. Journal of Physics: Conference Series, 2012, 363, 012004.	0.4	26
48	Heâ†'3(eâ†'eâ€²) quasielastic asymmetry. Physical Review C, 1993, 47, 110-130.	2.9	25
49	Measurement of spin observables using a storage ring with polarized beam and polarized internal gas target. Physical Review Letters, 1993, 70, 738-741.	7.8	24
50	Exclusive Electron Scattering from Deuterium at High Momentum Transfer. Physical Review Letters, 1995, 74, 4775-4778.	7.8	22
51	Deuteron Formation in the ReactionC12(e,Âeâ€²d)BT=110. Physical Review Letters, 1989, 62, 24-27.	7.8	20
52	Tensor Analyzing Powers for Quasielastic Electron Scattering from Deuterium. Physical Review Letters, 1999, 82, 687-690.	7.8	20
53	Spin-Momentum Correlations in Quasielastic Electron Scattering from Deuterium. Physical Review Letters, 2002, 88, 102302.	7.8	20
54	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20

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55	Electrodisintegration ofLi6studied with the reactionLi6(e,eâ€™p). Physical Review Letters, 1989, 62, 2925-2928.	7.8	19
56	Evidence for Nuclear Tensor Polarization of Deuterium Molecules in Storage Cells. Physical Review Letters, 1997, 78, 1235-1238.	7.8	19
57	Study of the mechanism of the reaction ^{4}He(e,eâ€™p)^{3}H. Physical Review Letters, 1991, 66, 409-412.	7.8	18
58	High-Missing-Momentum Components in the4He(e,eâ€²p)3HReaction. Physical Review Letters, 1998, 80, 2543-2546.	7.8	17
59	A multistage vibration isolation system for Advanced Virgo suspended optical benches. Classical and Quantum Gravity, 2019, 36, 075007.	4.0	17
60	Gravitational wave burst search in the Virgo C7 data. Classical and Quantum Gravity, 2009, 26, 085009.	4.0	16
61	Searching for gravitational waves from pulsars in binary systems: An all-sky search. Journal of Physics: Conference Series, 2010, 228, 012005.	0.4	16
62	State observers and Kalman filtering for high performance vibration isolation systems. Review of Scientific Instruments, 2014, 85, 034501.	1.3	15
63	Beam-Induced Nuclear Depolarization in a Gaseous Polarized-Hydrogen Target. Physical Review Letters, 1999, 82, 1164-1168.	7.8	14
64	In-vacuum optical isolation changes by heating in a Faraday isolator. Applied Optics, 2008, 47, 5853.	2.1	13
65	Spin-Dependent Electron-Proton Scattering in theÎ”-Excitation Region. Physical Review Letters, 2002, 89, 012001.	7.8	12
66	The NoEMi (Noise Frequency Event Miner) framework. Journal of Physics: Conference Series, 2012, 363, 012037.	0.4	12
67	(e,eâ€™p) study of triton+deuteron+proton clustering inLi6. Physical Review Letters, 1989, 63, 2793-2796.	7.8	11
68	Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. Classical and Quantum Gravity, 2013, 30, 055017.	4.0	11
69	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. Classical and Quantum Gravity, 2009, 26, 204002.	4.0	10
70	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.	4.0	10
71	Evidence for virtual Compton scattering from the proton. Physical Review D, 1995, 52, 4868-4871.	4.7	9
72	Status of coalescing binaries search activities in Virgo. Classical and Quantum Gravity, 2007, 24, 5767-5775.	4.0	9

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73	Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010.	0.4	9
74	Noise studies during the first Virgo science run and after. Classical and Quantum Gravity, 2008, 25, 184003.	4.0	8
75	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>Ã—</mml:mo><mml:msup><mml:mrow><mml:mn>10</mml:mn><mml:mn>a 100-ms time scale for gravitational-wave detection. Physical Review A, 2009, 79, .	2.5	8
76	Virgo calibration and reconstruction of the gravitationnal wave strain during VSR1. Journal of Physics: Conference Series, 2010, 228, 012015.	0.4	8
77	In-vacuum Faraday isolation remote tuning. Applied Optics, 2010, 49, 4780.	2.1	8
78	A state observer for the Virgo inverted pendulum. Review of Scientific Instruments, 2011, 82, 094502.	1.3	8
79	Innovations in seismic sensors driven by the search for gravitational waves. The Leading Edge, 2016, 35, 590-593.	0.7	8
80	Newtonian-noise characterization at Terziet in Limburgâ€"the Euregio Meuseâ€“Rhine candidate site for Einstein Telescope. Classical and Quantum Gravity, 2022, 39, 025009.	4.0	8
81	Surface and underground seismic characterization at Terziet in Limburgâ€"the Euregio Meuseâ€“Rhine candidate site for Einstein Telescope. Classical and Quantum Gravity, 2022, 39, 025008.	4.0	8
82	Experiments with Longitudinally Polarized Electrons in a Storage Ring Using a Siberian Snake. Physical Review Letters, 2000, 84, 3855-3858.	7.8	7
83	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
84	Einstein telescope site selection: Seismic and gravity gradient noise. Journal of Physics: Conference Series, 2010, 203, 012076.	0.4	6
85	Status of the Advanced Virgo gravitational wave detector. International Journal of Modern Physics A, 2017, 32, 1744003.	1.5	6
86	Characterization of the Virgo seismic environment. Classical and Quantum Gravity, 2012, 29, 025005.	4.0	5
87	A novel interferometrically read out inertial sensor for future gravitational wave detectors. , 2018, , .		5
88	Spin-exchange effects on tensor polarization of deuterium atoms. Physical Review A, 1998, 58, 1146-1151.	2.5	4
89	Towards time domain finite element analysis of gravity gradient noise. Journal of Physics: Conference Series, 2010, 228, 012034.	0.4	4
90	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. International Journal of Modern Physics D, 2011, 20, 2075-2079.	2.1	4

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91	Gas Damping in Capacitive MEMS Transducers in the Free Molecular Flow Regime. Sensors, 2021, 21, 2566.	3.8	3
92	Noise monitor tools and their application to Virgo data. Journal of Physics: Conference Series, 2012, 363, 012024.	0.4	2
93	Progress and challenges in advanced ground-based gravitational-wave detectors. General Relativity and Gravitation, 2014, 46, 1.	2.0	2
94	A THERMAL COMPENSATION SYSTEM FOR THE GRAVITATIONAL WAVE DETECTOR VIRGO. , 2012, , .		2
95	Electron scattering from a tensor polarized2H internal target. European Physical Journal D, 1995, 45, 337-359.	0.4	1
96	The Real-time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. , 2007, , .		1
97	Status of the commissioning of the Virgo interferometer. , 2012, , .		1
98	A cross-correlation method to search for gravitational wave bursts with AURIGA and Virgo. Classical and Quantum Gravity, 2008, 25, 114046.	4.0	0
99	Tools for noise characterization in Virgo. Journal of Physics: Conference Series, 2010, 243, 012004.	0.4	0
100	PROGRESSES IN THE REALIZATION OF A MONOLITHIC SUSPENSION SYSTEM IN VIRGO. , 2012, , .		0