Jacco Vink

List of Publications by Year in descending order

79 papers	4,281 citations	136950 32 h-index	110387 64 g-index
82 all docs	82 docs citations	82 times ranked	4018 citing authors

#	Article	IF	Citations
1	On the Magnetic Fields and Particle Acceleration in Cassiopeia A. Astrophysical Journal, 2003, 584, 758-769.	4.5	340
2	Supernova remnants: the X-ray perspective. Astronomy and Astrophysics Review, 2012, 20, 1.	25.5	340
3	The H.E.S.S. Galactic plane survey. Astronomy and Astrophysics, 2018, 612, A1.	5.1	244
4	Search for Dark Matter Annihilations towards the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. Physical Review Letters, 2016, 117, 111301.	7.8	233
5	A Million Second Chandra View of Cassiopeia A. Astrophysical Journal, 2004, 615, L117-L120.	4.5	216
6	A new radiative cooling curve based on an up-to-date plasma emission code. Astronomy and Astrophysics, 2009, 508, 751-757.	5.1	183
7	The LOFAR Two-metre Sky Survey. Astronomy and Astrophysics, 2022, 659, A1.	5.1	169
8	A very-high-energy component deep in the Î³-ray burst afterglow. Nature, 2019, 575, 464-467.	27.8	166
9	Observational Signatures of Particle Acceleration in Supernova Remnants. Space Science Reviews, 2012, 173, 369-431.	8.1	146
10	Supernova remnant energetics and magnetars: no evidence in favour of millisecond proto-neutron stars. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 370, L14-L18.	3.3	141
11	First detection of VHEÎ³-rays from SNÂ1006 by HESS. Astronomy and Astrophysics, 2010, 516, A62.	5.1	139
12	X-ray spectral imaging and Doppler mapping of Cassiopeia A. Astronomy and Astrophysics, 2002, 381, 1039-1048.	5.1	129
13	The ATHENA x-ray integral field unit (X-IFU). , 2018, , .		120
14	Search for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> -Ray Line Signals from Dark Matter Annihilations in the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. Physical Review Letters, 2018, 120, 201101.	7.8	105
15	The Slow Temperature Equilibration behind the Shock Front of SN 1006. Astrophysical Journal, 2003, 587, L31-L34.	4.5	101
16	Characterizing the Nonthermal Emission of Cassiopeia A. Astrophysical Journal, 2008, 686, 1094-1102.	4.5	96
17	The X-Ray Synchrotron Emission of RCW 86 and the Implications for Its Age. Astrophysical Journal, 2006, 648, L33-L37.	4.5	95
18	H.E.S.S. observations of RX J1713.7â˜3946 with improved angular and spectral resolution: Evidence for gamma-ray emission extending beyond the X-ray emitting shell. Astronomy and Astrophysics, 2018, 612, A6.	5.1	95

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19	The imprint of a symbiotic binary progenitor on the properties of Keplerâ€™s supernova remnant. Astronomy and Astrophysics, 2012, 537, A139.	5.1	91
20	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. Science, 2021, 372, 1081-1085.	12.6	86
21	The Kinematics of Keplerâ€™s Supernova Remnant as Revealed byChandra. Astrophysical Journal, 2008, 689, 231-241.	4.5	61
22	On the electron-ion temperature ratio established by collisionless shocks. Astronomy and Astrophysics, 2015, 579, A13.	5.1	50
23	H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100ÂGeV to 2ÂTeV Energy Range Close to the Galactic Center. Physical Review Letters, 2016, 117, 151302.	7.8	43
24	Deeper H.E.S.S. observations of Vela Junior (RX J0852.0âˆ’4622): Morphology studies and resolved spectroscopy. Astronomy and Astrophysics, 2018, 612, A7.	5.1	43
25	Revisiting the Distance, Environment, and Supernova Properties of SNR G57.2+0.8 that Hosts SGR 1935+2154. Astrophysical Journal, 2020, 905, 99.	4.5	41
26	Asymmetric Type-Ia supernova origin of W49B as revealed from spatially resolved X-ray spectroscopic study. Astronomy and Astrophysics, 2018, 615, A150.	5.1	40
27	X- and Î³-ray studies of Cas A: exposing core collapse to the core. New Astronomy Reviews, 2004, 48, 61-67.	12.8	38
28	TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. Astrophysical Journal Letters, 2017, 850, L22.	8.3	38
29	Constraints on an Annihilation Signal from a Core of Constant Dark Matter Density around the MilkyÂWay Center with H.E.S.S.. Physical Review Letters, 2015, 114, 081301.	7.8	36
30	Jets as Diagnostics of the Circumstellar Medium and the Explosion Energetics of Supernovae: The Case of Cassiopeia A. Astrophysical Journal, 2008, 686, 399-407.	4.5	35
31	The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT. Astronomy and Astrophysics, 2018, 612, A5.	5.1	35
32	Time-resolved hadronic particle acceleration in the recurrent nova RSÂOphiuchi. Science, 2022, 376, 77-80.	12.6	35
33	A DECLINE IN THE NONTHERMAL X-RAY EMISSION FROM CASSIOPEIA A. Astrophysical Journal Letters, 2011, 729, L28.	8.3	34
34	Physics and Evolution of Supernova Remnants. Astronomy and Astrophysics Library, 2020, , .	0.1	33
35	The hydrodynamics of the supernova remnant Cassiopeia A. Astronomy and Astrophysics, 2009, 503, 495-503.	5.1	31
36	Non-thermal bremsstrahlung from supernova remnants and the effect of Coulomb losses. Astronomy and Astrophysics, 2008, 486, 837-841.	5.1	27

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37	Low-frequency radio absorption in Cassiopeia A. Astronomy and Astrophysics, 2018, 612, A110.	5.1	25
38	Detailed spectral and morphological analysis of the shell type supernova remnant RCW 86. Astronomy and Astrophysics, 2018, 612, A4.	5.1	24
39	H.E.S.S. discovery of very high energy Î³-ray emission from PKSâ€‰0625â˜’354. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4187-4198.	4.4	21
40	Spatially resolved X-ray study of supernova remnants that host magnetars: Implication of their fossil field origin. Astronomy and Astrophysics, 2019, 629, A51.	5.1	21
41	Very high energy Î³-ray emission from two blazars of unknown redshift and upper limits on their distance. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5590-5602.	4.4	19
42	The shape of the cutoff in the synchrotron emission of SN 1006 observed withXMM-Newton. Astronomy and Astrophysics, 2013, 556, A80.	5.1	18
43	Investigating Galactic Supernova Remnant Candidates Using LOFAR. Astrophysical Journal, 2018, 860, 133.	4.5	17
44	Molecular Gas toward Supernova Remnant Cassiopeia A. Astrophysical Journal, 2018, 865, 6.	4.5	16
45	ALMA CO Observations of Gamma-Ray Supernova Remnant N132D in the Large Magellanic Cloud: Possible Evidence for Shocked Molecular Clouds Illuminated by Cosmic-Ray Protons. Astrophysical Journal, 2020, 902, 53.	4.5	16
46	Chemical Abundances in Sgr A East: Evidence for a Type Iax Supernova Remnant. Astrophysical Journal, 2021, 908, 31.	4.5	15
47	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. Astrophysical Journal, 2021, 917, 6.	4.5	15
48	XMMâ€“Newtonlarge program on SN1006 â€“ I. Methods and initial results of spatially resolved spectroscopy. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3954-3975.	4.4	14
49	Unveiling pure-metal ejecta X-ray emission in supernova remnants through their radiative recombination continuum. Astronomy and Astrophysics, 2020, 638, A101.	5.1	13
50	The Forward and Reverse Shock Dynamics of Cassiopeia A. Astrophysical Journal, 2022, 929, 57.	4.5	13
51	A low-frequency view of mixed-morphology supernova remnant VRO 42.05.01, and its neighbourhood. Astronomy and Astrophysics, 2019, 622, A6.	5.1	12
52	Additional Evidence for a Pulsar Wind Nebula in the Heart of SN 1987A from Multiepoch X-Ray Data and MHD Modeling. Astrophysical Journal, 2022, 931, 132.	4.5	12
53	Supernova 1604, Keplerâ€™s Supernova, and its Remnant. , 2017, , 139-160.		11
54	Spatially Resolved Broadband Synchrotron Emission from the Nonthermal Limbs of SN1006. Astrophysical Journal, 2018, 864, 85.	4.5	10

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55	The environment of supernova remnant VRO 42.05.01 as probed with IRAM 30m molecular line observations. Astronomy and Astrophysics, 2019, 627, A75.	5.1	10
56	The Post-impact Evolution of the X-Ray-emitting Gas in SNR 1987A as Viewed by XMM-Newton. Astrophysical Journal, 2021, 916, 41.	4.5	10
57	Upper limits on very-high-energy gamma-ray emission from core-collapse supernovae observed with H.E.S.S.. Astronomy and Astrophysics, 2019, 626, A57.	5.1	9
58	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. Astrophysical Journal Letters, 2020, 894, L16.	8.3	9
59	Mapping the spectral index of Cassiopeia A: evidence for flattening from radio to infrared. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1026-1040.	4.4	9
60	Spatially Resolved RGS Analysis of Keplerâ€™s Supernova Remnant. Astrophysical Journal, 2021, 915, 42.	4.5	9
61	Practical Aspects of X-ray Imaging Polarimetry of Supernova Remnants and Other Extended Sources. Galaxies, 2018, 6, 46.	3.0	8
62	G7.7â€“3.7: A Young Supernova Remnant Probably Associated with the Guest Star in 386 CE (SN 386). Astrophysical Journal Letters, 2018, 865, L6.	8.3	7
63	Low-frequency Radio Absorption in Tychoâ€™s Supernova Remnant. Astronomical Journal, 2019, 158, 253.	4.7	7
64	XMMâ€“Newtonlarge programme on SN1006 â€“ II. Thermal emission. Monthly Notices of the Royal Astronomical Society, 2016, 462, 158-166.	4.4	6
65	A polarized view of the hot and violent universe. Experimental Astronomy, 0, , 1.	3.7	6
66	LMC N132D: A mature supernova remnant with a power-law gamma-ray spectrum extending beyond 8 TeV. Astronomy and Astrophysics, 2021, 655, A7.	5.1	6
67	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. Astrophysical Journal, 2021, 919, 106.	4.5	6
68	H.E.S.S. Follow-up Observations of Binary Black Hole Coalescence Events during the Second and Third Gravitational-wave Observing Runs of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2021, 923, 109.	4.5	6
69	Unusually High HCO⁺/CO Ratios in and outside Supernova Remnant W49B. Astrophysical Journal, 2022, 931, 144.	4.5	6
70	H.E.S.S. observations of the flaring gravitationally lensed galaxy PKSÂ1830â€“211. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3886-3891.	4.4	5
71	Search for gamma rays from SNe with a variable-size sliding-time-window analysis of the Fermi-LAT data. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1413-1421.	4.4	5
72	A MeerKAT, e-MERLIN, H.E.S.S., and Swift search for persistent and transient emission associated with three localized FRBs. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1365-1379.	4.4	4

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73	Spatially Resolved X-Ray Study of Supernova Remnant G306.3â€“0.9 with Unusually High Calcium Abundance. Astrophysical Journal, 2022, 924, 119.	4.5	3
74	The radial supernova remnant distribution in the Galaxy. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1536-1544.	4.4	2
75	Completing the X-ray view of the recently discovered supernova remnant G54.41+0.03. Astronomy and Astrophysics, 0, , .	5.1	1
76	Middle-Aged and Old Supernova Remnants. Astronomy and Astrophysics Library, 2020, , 257-275.	0.1	0
77	Classification and Population. Astronomy and Astrophysics Library, 2020, , 33-53.	0.1	0
78	Supernova Remnants and Cosmic Rays: Non-thermal Radiation. Astronomy and Astrophysics Library, 2020, , 323-377.	0.1	0
79	Summary and Prospects. Astronomy and Astrophysics Library, 2020, , 459-474.	0.1	0