

# Jacco Vink

## List of Publications by Year in descending order

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Version: 2024-02-01

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	The LOFAR Two-metre Sky Survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A1.	5.1	169
2	Spatially Resolved X-Ray Study of Supernova Remnant G306.3+0.9 with Unusually High Calcium Abundance. <i>Astrophysical Journal</i> , 2022, 924, 119.	4.5	3
3	Time-resolved hadronic particle acceleration in the recurrent nova RS Ophiuchi. <i>Science</i> , 2022, 376, 77-80.	12.6	35
4	The Forward and Reverse Shock Dynamics of Cassiopeia A. <i>Astrophysical Journal</i> , 2022, 929, 57.	4.5	13
5	Unusually High HCO <sup>+</sup> /CO Ratios in and outside Supernova Remnant W49B. <i>Astrophysical Journal</i> , 2022, 931, 144.	4.5	6
6	Additional Evidence for a Pulsar Wind Nebula in the Heart of SN 1987A from Multiepoch X-Ray Data and MHD Modeling. <i>Astrophysical Journal</i> , 2022, 931, 132.	4.5	12
7	A MeerKAT, e-MERLIN, H.E.S.S., and <i>Swift</i> search for persistent and transient emission associated with three localized FRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1365-1379.	4.4	4
8	Mapping the spectral index of Cassiopeia A: evidence for flattening from radio to infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1026-1040.	4.4	9
9	Chemical Abundances in Sgr A East: Evidence for a Type Iax Supernova Remnant. <i>Astrophysical Journal</i> , 2021, 908, 31.	4.5	15
10	The radial supernova remnant distribution in the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1536-1544.	4.4	2
11	Search for gamma rays from SNe with a variable-size sliding-time-window analysis of the <i>Fermi</i> -LAT data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1413-1421.	4.4	5
12	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. <i>Science</i> , 2021, 372, 1081-1085.	12.6	86
13	The Post-impact Evolution of the X-Ray-emitting Gas in SNR 1987A as Viewed by XMM-Newton. <i>Astrophysical Journal</i> , 2021, 916, 41.	4.5	10
14	Spatially Resolved RGS Analysis of Kepler's Supernova Remnant. <i>Astrophysical Journal</i> , 2021, 915, 42.	4.5	9
15	LMC N132D: A mature supernova remnant with a power-law gamma-ray spectrum extending beyond 8 TeV. <i>Astronomy and Astrophysics</i> , 2021, 655, A7.	5.1	6
16	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. <i>Astrophysical Journal</i> , 2021, 917, 6.	4.5	15
17	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. <i>Astrophysical Journal</i> , 2021, 919, 106.	4.5	6
18	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. <i>Astrophysical Journal</i> , 2021, 923, 109.	4.5	6

#	ARTICLE	IF	CITATIONS
19	Physics and Evolution of Supernova Remnants. Astronomy and Astrophysics Library, 2020, , .	0.1	33
20	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. Astrophysical Journal Letters, 2020, 894, L16.	8.3	9
21	Very high energy $\hat{1}^3$ -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
22	Unveiling pure-metal ejecta X-ray emission in supernova remnants through their radiative recombination continuum. Astronomy and Astrophysics, 2020, 638, A101.	5.1	13
23	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
24	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
25	Middle-Aged and Old Supernova Remnants. Astronomy and Astrophysics Library, 2020, , 257-275.	0.1	0
26	Classification and Population. Astronomy and Astrophysics Library, 2020, , 33-53.	0.1	0
27	Supernova Remnants and Cosmic Rays: Non-thermal Radiation. Astronomy and Astrophysics Library, 2020, , 323-377.	0.1	0
28	Summary and Prospects. Astronomy and Astrophysics Library, 2020, , 459-474.	0.1	0
29	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
30	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
31	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
32	H.E.S.S. observations of the flaring gravitationally lensed galaxy PKSâ€‰1830â€‰211. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3886-3891.	4.4	5
33	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
34	A very-high-energy component deep in the $\hat{1}^3$ -ray burst afterglow. Nature, 2019, 575, 464-467.	27.8	166
35	Low-frequency Radio Absorption in Tychoâ€™s Supernova Remnant. Astronomical Journal, 2019, 158, 253.	4.7	7
36	H.E.S.S. discovery of very high energy $\hat{1}^3$ -ray emission from PKSâ€‰0625â€‰354. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4187-4198.	4.4	21

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37	H.E.S.S. observations of RX J1713.7 $\hat{\sim}$ 3946 with improved angular and spectral resolution: Evidence for gamma-ray emission extending beyond the X-ray emitting shell. <i>Astronomy and Astrophysics</i> , 2018, 612, A6.	5.1	95
38	The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT. <i>Astronomy and Astrophysics</i> , 2018, 612, A5.	5.1	35
39	Spatially Resolved Broadband Synchrotron Emission from the Nonthermal Limbs of SN1006. <i>Astrophysical Journal</i> , 2018, 864, 85.	4.5	10
40	G7.7 $\hat{\sim}$ 3.7: A Young Supernova Remnant Probably Associated with the Guest Star in 386 CE (SN 386). <i>Astrophysical Journal Letters</i> , 2018, 865, L6.	8.3	7
41	Molecular Gas toward Supernova Remnant Cassiopeia A. <i>Astrophysical Journal</i> , 2018, 865, 6.	4.5	16
42	Detailed spectral and morphological analysis of the shell type supernova remnant RCW 86. <i>Astronomy and Astrophysics</i> , 2018, 612, A4.	5.1	24
43	Search for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{3} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Ray Line Signals from Dark Matter Annihilations in the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. <i>Physical Review Letters</i> , 2018, 120, 201101.	7.8	105
44	Deeper H.E.S.S. observations of Vela Junior (RX J0852.0 $\hat{\sim}$ 4622): Morphology studies and resolved spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 612, A7.	5.1	43
45	Asymmetric Type-Ia supernova origin of W49B as revealed from spatially resolved X-ray spectroscopic study. <i>Astronomy and Astrophysics</i> , 2018, 615, A150.	5.1	40
46	Practical Aspects of X-ray Imaging Polarimetry of Supernova Remnants and Other Extended Sources. <i>Galaxies</i> , 2018, 6, 46.	3.0	8
47	The H.E.S.S. Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A1.	5.1	244
48	Investigating Galactic Supernova Remnant Candidates Using LOFAR. <i>Astrophysical Journal</i> , 2018, 860, 133.	4.5	17
49	Low-frequency radio absorption in Cassiopeia A. <i>Astronomy and Astrophysics</i> , 2018, 612, A110.	5.1	25
50	The ATHENA x-ray integral field unit (X-IFU). , 2018, , .		120
51	TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. <i>Astrophysical Journal Letters</i> , 2017, 850, L22.	8.3	38
52	Supernova 1604, Kepler $\hat{\sim}$ s Supernova, and its Remnant. , 2017, , 139-160.		11
53	Search for Dark Matter Annihilations towards the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.. <i>Physical Review Letters</i> , 2016, 117, 111301.	7.8	233
54	H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100 $\hat{\sim}$ GeV to 2 $\hat{\sim}$ TeV Energy Range Close to the Galactic Center. <i>Physical Review Letters</i> , 2016, 117, 151302.	7.8	43

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55	<i>XMM-Newton</i> large programme on SN1006 – II. Thermal emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 158-166.	4.4	6
56	On the electron-ion temperature ratio established by collisionless shocks. <i>Astronomy and Astrophysics</i> , 2015, 579, A13.	5.1	50
57	<i>XMM-Newton</i> large program on SN1006 – I. Methods and initial results of spatially resolved spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 3954-3975.	4.4	14
58	Constraints on an Annihilation Signal from a Core of Constant Dark Matter Density around the Milky Way Center with H.E.S.S.. <i>Physical Review Letters</i> , 2015, 114, 081301.	7.8	36
59	The shape of the cutoff in the synchrotron emission of SN 1006 observed with <i>XMM-Newton</i> . <i>Astronomy and Astrophysics</i> , 2013, 556, A80.	5.1	18
60	Observational Signatures of Particle Acceleration in Supernova Remnants. <i>Space Science Reviews</i> , 2012, 173, 369-431.	8.1	146
61	The imprint of a symbiotic binary progenitor on the properties of Kepler's supernova remnant. <i>Astronomy and Astrophysics</i> , 2012, 537, A139.	5.1	91
62	Supernova remnants: the X-ray perspective. <i>Astronomy and Astrophysics Review</i> , 2012, 20, 1.	25.5	340
63	A DECLINE IN THE NONTHERMAL X-RAY EMISSION FROM CASSIOPEIA A. <i>Astrophysical Journal Letters</i> , 2011, 729, L28.	8.3	34
64	First detection of VHE $\gamma$ -rays from SN1006 by HESS. <i>Astronomy and Astrophysics</i> , 2010, 516, A62.	5.1	139
65	A new radiative cooling curve based on an up-to-date plasma emission code. <i>Astronomy and Astrophysics</i> , 2009, 508, 751-757.	5.1	183
66	The hydrodynamics of the supernova remnant Cassiopeia A. <i>Astronomy and Astrophysics</i> , 2009, 503, 495-503.	5.1	31
67	Non-thermal bremsstrahlung from supernova remnants and the effect of Coulomb losses. <i>Astronomy and Astrophysics</i> , 2008, 486, 837-841.	5.1	27
68	Characterizing the Nonthermal Emission of Cassiopeia A. <i>Astrophysical Journal</i> , 2008, 686, 1094-1102.	4.5	96
69	The Kinematics of Kepler's Supernova Remnant as Revealed by <i>Chandra</i> . <i>Astrophysical Journal</i> , 2008, 689, 231-241.	4.5	61
70	Jets as Diagnostics of the Circumstellar Medium and the Explosion Energetics of Supernovae: The Case of Cassiopeia A. <i>Astrophysical Journal</i> , 2008, 686, 399-407.	4.5	35
71	The X-Ray Synchrotron Emission of RCW 86 and the Implications for Its Age. <i>Astrophysical Journal</i> , 2006, 648, L33-L37.	4.5	95
72	Supernova remnant energetics and magnetars: no evidence in favour of millisecond proto-neutron stars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 370, L14-L18.	3.3	141

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73	X- and $\hat{1}^3$ -ray studies of Cas A: exposing core collapse to the core. <i>New Astronomy Reviews</i> , 2004, 48, 61-67.	12.8	38
74	A Million Second Chandra View of Cassiopeia A. <i>Astrophysical Journal</i> , 2004, 615, L117-L120.	4.5	216
75	On the Magnetic Fields and Particle Acceleration in Cassiopeia A. <i>Astrophysical Journal</i> , 2003, 584, 758-769.	4.5	340
76	The Slow Temperature Equilibration behind the Shock Front of SN 1006. <i>Astrophysical Journal</i> , 2003, 587, L31-L34.	4.5	101
77	X-ray spectral imaging and Doppler mapping of Cassiopeia A. <i>Astronomy and Astrophysics</i> , 2002, 381, 1039-1048.	5.1	129
78	A polarized view of the hot and violent universe. <i>Experimental Astronomy</i> , 0, , 1.	3.7	6
79	Completing the X-ray view of the recently discovered supernova remnant G54.41+0.03. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	1