

Remco J De Kok

List of Publications by Year in descending order

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85
papers

6,644
citations

53789

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93
times ranked

3625
citing authors

#	ARTICLE	IF	CITATIONS
1	The orbital motion, absolute mass and high-altitude winds of exoplanet HD 209458b. <i>Nature</i> , 2010, 465, 1049-1051.	27.8	580
2	The NEMESIS planetary atmosphere radiative transfer and retrieval tool. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1136-1150.	2.3	415
3	Fast spin of the young extrasolar planet ρ Pictoris b. <i>Nature</i> , 2014, 509, 63-65.	27.8	307
4	The signature of orbital motion from the dayside of the planet $\ddot{\iota}$, Boötis b. <i>Nature</i> , 2012, 486, 502-504.	27.8	300
5	Detection of water absorption in the day side atmosphere of HD 189733 b using ground-based high-resolution spectroscopy at 3.2 μ m. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 436, L35-L39.	3.3	266
6	ROTATION AND WINDS OF EXOPLANET HD 189733b MEASURED WITH HIGH-DISPERSION TRANSMISSION SPECTROSCOPY. <i>Astrophysical Journal</i> , 2016, 817, 106.	4.5	216
7	FINDING EXTRATERRESTRIAL LIFE USING GROUND-BASED HIGH-DISPERSION SPECTROSCOPY. <i>Astrophysical Journal</i> , 2013, 764, 182.	4.5	205
8	Combining high-dispersion spectroscopy with high contrast imaging: Probing rocky planets around our nearest neighbors. <i>Astronomy and Astrophysics</i> , 2015, 576, A59.	5.1	205
9	Manifestations and mechanisms of the Karakoram glacier Anomaly. <i>Nature Geoscience</i> , 2020, 13, 8-16.	12.9	186
10	Detection of carbon monoxide in the high-resolution day-side spectrum of the exoplanet HD 189733b. <i>Astronomy and Astrophysics</i> , 2013, 554, A82.	5.1	183
11	Vertical abundance profiles of hydrocarbons in Titan's atmosphere at 15 $^{\circ}$ S and 80 $^{\circ}$ N retrieved from Cassini/CIRS spectra. <i>Icarus</i> , 2007, 188, 120-138.	2.5	176
12	Discovery of Water at High Spectral Resolution in the Atmosphere of 51 Peg b. <i>Astronomical Journal</i> , 2017, 153, 138.	4.7	134
13	Carbon monoxide and water vapor in the atmosphere of the non-transiting exoplanet HD 179949 b. <i>Astronomy and Astrophysics</i> , 2014, 565, A124.	5.1	133
14	Oxygen compounds in Titan's stratosphere as observed by Cassini CIRS. <i>Icarus</i> , 2007, 186, 354-363.	2.5	127
15	Vertical profiles of HCN, HC3N, and C2H2 in Titan's atmosphere derived from Cassini/CIRS data. <i>Icarus</i> , 2007, 186, 364-384.	2.5	121
16	DETECTION OF MOLECULAR ABSORPTION IN THE DAYSIDE OF EXOPLANET 51 PEGASI b?. <i>Astrophysical Journal</i> , 2013, 767, 27.	4.5	114
17	Latitudinal variations of HCN, HC3N, and C2N2 in Titan's stratosphere derived from Cassini CIRS data. <i>Icarus</i> , 2006, 181, 243-255.	2.5	105
18	Temperature and Composition of Saturn's Polar Hot Spots and Hexagon. <i>Science</i> , 2008, 319, 79-81.	12.6	103

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19	EChO. <i>Experimental Astronomy</i> , 2012, 34, 311-353.	3.7	98
20	Titan's stratospheric C ₂ N ₂ , C ₃ H ₄ , and C ₄ H ₂ abundances from Cassini/CIRS far-infrared spectra. <i>Icarus</i> , 2009, 202, 620-631.	2.5	96
21	Characteristics of Titan's stratospheric aerosols and condensate clouds from Cassini CIRS far-infrared spectra. <i>Icarus</i> , 2007, 191, 223-235.	2.5	95
22	Optical to near-infrared transit observations of super-Earth GJ1214b: water-world or mini-Neptune?. <i>Astronomy and Astrophysics</i> , 2012, 538, A46.	5.1	90
23	A single-scattering approximation for infrared radiative transfer in limb geometry in the Martian atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1568-1580.	2.3	84
24	Optical constants of Titan's stratospheric aerosols in the 700-1500 cm ⁻¹ spectral range constrained by Cassini/CIRS observations. <i>Icarus</i> , 2012, 219, 5-12.	2.5	82
25	Exoplanet atmospheres with GIANO. <i>Astronomy and Astrophysics</i> , 2018, 615, A16.	5.1	82
26	Characterising Saturn's vertical temperature structure from Cassini/CIRS. <i>Icarus</i> , 2007, 189, 457-478.	2.5	80
27	Active upper-atmosphere chemistry and dynamics from polar circulation reversal on Titan. <i>Nature</i> , 2012, 491, 732-735.	27.8	80
28	A search for TiO in the optical high-resolution transmission spectrum of HD 209458b: Hindrance due to inaccuracies in the line database. <i>Astronomy and Astrophysics</i> , 2015, 575, A20.	5.1	77
29	A Search for Water in a Super-Earth Atmosphere: High-resolution Optical Spectroscopy of 55Cnc e. <i>Astronomical Journal</i> , 2017, 153, 268.	4.7	74
30	Evidence against a strong thermal inversion in HD 209458b from high-dispersion spectroscopy. <i>Astronomy and Astrophysics</i> , 2015, 576, A111.	5.1	71
31	CHARACTERIZING EXOPLANETARY ATMOSPHERES THROUGH INFRARED POLARIMETRY. <i>Astrophysical Journal</i> , 2011, 741, 59.	4.5	67
32	Global and temporal variations in hydrocarbons and nitriles in Titan's stratosphere for northern winter observed by Cassini/CIRS. <i>Icarus</i> , 2008, 193, 595-611.	2.5	65
33	Titan's atmosphere as observed by Cassini/VIMS solar occultations: CH ₄ , CO and evidence for C ₂ H ₆ absorption. <i>Icarus</i> , 2015, 248, 1-24.	2.5	64
34	Irrigation as a Potential Driver for Anomalous Glacier Behavior in High Mountain Asia. <i>Geophysical Research Letters</i> , 2018, 45, 2047-2054.	4.0	64
35	The slow spin of the young substellar companion GQ Lupi b and its orbital configuration. <i>Astronomy and Astrophysics</i> , 2016, 593, A74.	5.1	64
36	Spatial and temporal variations in Titan's surface temperatures from Cassini CIRS observations. <i>Planetary and Space Science</i> , 2012, 60, 62-71.	1.7	63

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37	The ¹² C/ ¹³ C isotopic ratio in Titan hydrocarbons from Cassini/CIRS infrared spectra. <i>Icarus</i> , 2008, 195, 778-791.	2.5	62
38	HCN ice in Titan's high-altitude southern polar cloud. <i>Nature</i> , 2014, 514, 65-67.	27.8	59
39	Medium-resolution integral-field spectroscopy for high-contrast exoplanet imaging. <i>Astronomy and Astrophysics</i> , 2018, 617, A144.	5.1	59
40	Titan's winter polar vortex structure revealed by chemical tracers. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
41	Evidence for the disintegration of KIC 12557548 b. <i>Astronomy and Astrophysics</i> , 2012, 545, L5.	5.1	56
42	Search for an exosphere in sodium and calcium in the transmission spectrum of exoplanet 55 Cancri e. <i>Astronomy and Astrophysics</i> , 2016, 593, A129.	5.1	53
43	Dynamical implications of seasonal and spatial variations in Titan's stratospheric composition. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 697-711.	3.4	50
44	Spatial variability of carbon monoxide in Venus' mesosphere from Venus Express/Visible and Infrared Thermal Imaging Spectrometer measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
45	Contrasting Meteorological Drivers of the Glacier Mass Balance Between the Karakoram and Central Himalaya. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	47
46	Study of Titan's fall southern stratospheric polar cloud composition with Cassini/CIRS: Detection of benzene ice. <i>Icarus</i> , 2018, 310, 89-104.	2.5	46
47	Analysis of Cassini/CIRS limb spectra of Titan acquired during the nominal mission II: Aerosol extinction profiles in the 600-1420 cm ⁻¹ spectral range. <i>Icarus</i> , 2010, 210, 852-866.	2.5	45
48	Identifying new opportunities for exoplanet characterisation at high spectral resolution. <i>Astronomy and Astrophysics</i> , 2014, 561, A150.	5.1	45
49	SEARCH FOR RAYLEIGH SCATTERING IN THE ATMOSPHERE OF GJ1214b. <i>Astrophysical Journal</i> , 2013, 771, 109.	4.5	43
50	The formation and evolution of Titan's winter polar vortex. <i>Nature Communications</i> , 2017, 8, 1586.	12.8	41
51	Water vapor in Titan's stratosphere from Cassini CIRS far-infrared spectra. <i>Icarus</i> , 2012, 220, 855-862.	2.5	39
52	Tropospheric carbon monoxide concentrations and variability on Venus from Venus Express/VIRTIS observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
53	Scattering particles in nightside limb observations of Venus' upper atmosphere by Venus Express VIRTIS. <i>Icarus</i> , 2011, 211, 51-57.	2.5	36
54	The meridional phosphine distribution in Saturn's upper troposphere from Cassini/CIRS observations. <i>Icarus</i> , 2007, 188, 72-88.	2.5	35

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55	SEASONAL CHANGES IN TITAN'S POLAR TRACE GAS ABUNDANCE OBSERVED BY <i>CASSINI</i>. <i>Astrophysical Journal Letters</i> , 2010, 724, L84-L89.	8.3	34
56	The influence of forward-scattered light in transmission measurements of (exo)planetary atmospheres. <i>Icarus</i> , 2012, 221, 517-524.	2.5	33
57	Towards understanding the pattern of glacier mass balances in High Mountain Asia using regional climatic modelling. <i>Cryosphere</i> , 2020, 14, 3215-3234.	3.9	32
58	Mapping Titan's HCN in the far infra-red: implications for photochemistry. <i>Faraday Discussions</i> , 2010, 147, 51.	3.2	31
59	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
60	Meridional variations in stratospheric acetylene and ethane in the southern hemisphere of the saturnian atmosphere as determined from Cassini/CIRS measurements. <i>Icarus</i> , 2007, 190, 556-572.	2.5	30
61	The GROUSE project. <i>Astronomy and Astrophysics</i> , 2011, 528, A49.	5.1	30
62	The GROUSE project. <i>Astronomy and Astrophysics</i> , 2013, 550, A54.	5.1	28
63	Condensation in Titan's stratosphere during polar winter. <i>Icarus</i> , 2008, 197, 572-578.	2.5	27
64	SEASONAL DISAPPEARANCE OF FAR-INFRARED HAZE IN TITAN'S STRATOSPHERE. <i>Astrophysical Journal Letters</i> , 2012, 754, L3.	8.3	26
65	EVOLUTION OF THE FAR-INFRARED CLOUD AT TITAN'S SOUTH POLE. <i>Astrophysical Journal Letters</i> , 2015, 804, L34.	8.3	22
66	Snow cover persistence reverses the altitudinal patterns of warming above and below 5000Åm on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2022, 803, 149889.	8.0	22
67	FIRST OBSERVATION IN THE SOUTH OF TITAN'S FAR-INFRARED 220 cm ⁻¹ CLOUD. <i>Astrophysical Journal Letters</i> , 2012, 761, L15.	8.3	19
68	The influence of non-isotropic scattering of thermal radiation on spectra of brown dwarfs and hot exoplanets. <i>Astronomy and Astrophysics</i> , 2011, 531, A67.	5.1	17
69	Small-scale composition and haze layering in Titan's polar vortex. <i>Icarus</i> , 2009, 204, 645-657.	2.5	16
70	A tropical haze band in Titan's stratosphere. <i>Icarus</i> , 2010, 207, 485-490.	2.5	16
71	Creating 1-km long-term (1980-2014) daily average air temperatures over the Tibetan Plateau by integrating eight types of reanalysis and land data assimilation products downscaled with MODIS-estimated temperature lapse rates based on machine learning. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 97, 102295.	2.8	16
72	Compositional evidence for Titan's stratospheric tilt. <i>Planetary and Space Science</i> , 2010, 58, 792-800.	1.7	15

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73	Science goals and mission concept for the future exploration of Titan and Enceladus. Planetary and Space Science, 2014, 104, 59-77.	1.7	15
74	Far-infrared opacity sources in Titan's troposphere reconsidered. Icarus, 2010, 209, 854-857.	2.5	14
75	Measurements, models and drivers of incoming longwave radiation in the Himalaya. International Journal of Climatology, 2020, 40, 942-956.	3.5	10
76	Combining angular differential imaging and accurate polarimetry with SPHERE/IRDIS to characterize young giant exoplanets. , 2017, , .		8
77	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
78	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan POLar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). Experimental Astronomy, 2022, 54, 911-973.	3.7	5
79	Exploring the diversity of Jupiter-class planets. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130064.	3.4	3
80	The Western Tibetan Vortex as an Emergent Feature of Near-Surface Temperature Variations. Geophysical Research Letters, 2019, 46, 14145-14152.	4.0	3
81	Spatial and temporal patterns of snowmelt refreezing in a Himalayan catchment. Journal of Glaciology, 0, , 1-21.	2.2	3
82	Exoplanet atmospheres at high spectral resolution: A CRIRES survey of hot-Jupiters. Proceedings of the International Astronomical Union, 2010, 6, 208-211.	0.0	1
83	The Exoplanet Characterization Observatory (EChO): performance model EclipseSim and applications. Proceedings of SPIE, 2012, , .	0.8	1
84	The GROUnd-based Secondary Eclipse project - GROUSE. Proceedings of the International Astronomical Union, 2010, 6, 487-488.	0.0	0
85	Potential for stratospheric Doppler windspeed measurements of Jupiter by sub-millimetre spectroscopy. Planetary and Space Science, 2010, 58, 1489-1499.	1.7	0