Remco J De Kok

List of Publications by Year
in descending order

85	6,644	53794	64796
papers	citations	45 h-index	79 g-index

93	93	93	3625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Snow cover persistence reverses the altitudinal patterns of warming above and below 5000Âm on the Tibetan Plateau. Science of the Total Environment, 2022, 803, 149889.	8.0	22
2	Science goals and new mission concepts for future exploration of Titanâ€™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
3	Creating 1-km long-term (1980â€“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. International Journal of Applied Earth Observation and Geoinformation, 2021, 97, 102295.	2.8	16
4	Measurements, models and drivers of incoming longwave radiation in the Himalaya. International Journal of Climatology, 2020, 40, 942-956.	3.5	10
5	Manifestations and mechanisms of the Karakoram glacier Anomaly. Nature Geoscience, 2020, 13, 8-16.	12.9	186
6	Towards understanding the pattern of glacier mass balances in High Mountain Asia using regional climatic modelling. Cryosphere, 2020, 14, 3215-3234.	3.9	32
7	Contrasting Meteorological Drivers of the Glacier Mass Balance Between the Karakoram and Central Himalaya. Frontiers in Earth Science, 2019, 7, .	1.8	47
8	The Western Tibetan Vortex as an Emergent Feature of Nearâ€Surface Temperature Variations. Geophysical Research Letters, 2019, 46, 14145-14152.	4.0	3
9	Irrigation as a Potential Driver for Anomalous Glacier Behavior in High Mountain Asia. Geophysical Research Letters, 2018, 45, 2047-2054.	4.0	64
10	Study of Titanâ€™s fall southern stratospheric polar cloud composition with Cassini/CIRS: Detection of benzene ice. Icarus, 2018, 310, 89-104.	2.5	46
11	Medium-resolution integral-field spectroscopy for high-contrast exoplanet imaging. Astronomy and Astrophysics, 2018, 617, A144.	5.1	59
12	Exoplanet atmospheres with GIANO. Astronomy and Astrophysics, 2018, 615, A16.	5.1	82
13	A Search for Water in a Super-Earth Atmosphere: High-resolution Optical Spectroscopy of 55Cancri e. Astronomical Journal, 2017, 153, 268.	4.7	74
14	Discovery of Water at High Spectral Resolution in the Atmosphere of 51 Peg b. Astronomical Journal, 2017, 153, 138.	4.7	134
15	The formation and evolution of Titanâ€™s winter polar vortex. Nature Communications, 2017, 8, 1586.	12.8	41
16	Combining angular differential imaging and accurate polarimetry with SPHERE/IRDIS to characterize young giant exoplanets. , 2017, , .		8
17	Search for an exosphere in sodium and calcium in the transmission spectrum of exoplanet 55 Cancri e. Astronomy and Astrophysics, 2016, 593, A129.	5.1	53
18	ROTATION AND WINDS OF EXOPLANET HD 189733Âb MEASURED WITH HIGH-DISPERSION TRANSMISSION SPECTROSCOPY. Astrophysical Journal, 2016, 817, 106.	4.5	216

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19	The slow spin of the young substellar companion GQ Lupi b and its orbital configuration. Astronomy and Astrophysics, 2016, 593, A74.	5.1	64
20	EVOLUTION OF THE FAR-INFRARED CLOUD AT TITANâ€™S SOUTH POLE. Astrophysical Journal Letters, 2015, 804, L34.	8.3	22
21	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
22	A search for TiO in the optical high-resolution transmission spectrum of HD 209458b: Hindrance due to inaccuracies in the line database. Astronomy and Astrophysics, 2015, 575, A20.	5.1	77
23	Combining high-dispersion spectroscopy with high contrast imaging: Probing rocky planets around our nearest neighbors. Astronomy and Astrophysics, 2015, 576, A59.	5.1	205
24	Evidence against a strong thermal inversion in HD 209458b from high-dispersion spectroscopy. Astronomy and Astrophysics, 2015, 576, A111.	5.1	71
25	Titanâ€™s atmosphere as observed by Cassini/VIMS solar occultations: CH4, CO and evidence for C2H6 absorption. Icarus, 2015, 248, 1-24.	2.5	64
26	Carbon monoxide and water vapor in the atmosphere of the non-transiting exoplanet HD 179949 b. Astronomy and Astrophysics, 2014, 565, A124.	5.1	133
27	Science goals and mission concept for the future exploration of Titan and Enceladus. Planetary and Space Science, 2014, 104, 59-77.	1.7	15
28	Fast spin of the young extrasolar planet Î²â€‰Pictorisâ€‰b. Nature, 2014, 509, 63-65.	27.8	307
29	HCN ice in Titanâ€™s high-altitude southern polar cloud. Nature, 2014, 514, 65-67.	27.8	59
30	Identifying new opportunities for exoplanet characterisation at high spectral resolution. Astronomy and Astrophysics, 2014, 561, A150.	5.1	45
31	Exploring the diversity of Jupiter-class planets. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130064.	3.4	3
32	Detection of water absorption in the day side atmosphere of HD 189733 b using ground-based high-resolution spectroscopy at 3.2â€‰Î¼m. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 436, L35-L39.	3.3	266
33	SEARCH FOR RAYLEIGH SCATTERING IN THE ATMOSPHERE OF GJ1214b. Astrophysical Journal, 2013, 771, 109.	4.5	43
34	DETECTION OF MOLECULAR ABSORPTION IN THE DAYSIDE OF EXOPLANET 51 PEGASI b?. Astrophysical Journal, 2013, 767, 27.	4.5	114
35	FINDING EXTRATERRESTRIAL LIFE USING GROUND-BASED HIGH-DISPERSION SPECTROSCOPY. Astrophysical Journal, 2013, 764, 182.	4.5	205
36	The GROUSE project. Astronomy and Astrophysics, 2013, 550, A54.	5.1	28

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37	Detection of carbon monoxide in the high-resolution day-side spectrum of the exoplanet HD 189733b. Astronomy and Astrophysics, 2013, 554, A82.	5.1	183
38	The signature of orbital motion from the dayside of the planet Ï„ BoÃ¶tis b. Nature, 2012, 486, 502-504.	27.8	300
39	FIRST OBSERVATION IN THE SOUTH OF TITAN'S FAR-INFRARED 220 cm ^{â€“1} CLOUD. Astrophysical Journal Letters, 2012, 761, L15.	8.3	19
40	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
41	Active upper-atmosphere chemistry and dynamics from polar circulation reversal on Titan. Nature, 2012, 491, 732-735.	27.8	80
42	Water vapor in Titanâ€™s stratosphere from Cassini CIRS far-infrared spectra. Icarus, 2012, 220, 855-862.	2.5	39
43	The Exoplanet Characterization Observatory (EChO): performance modelEclipseSimand applications. Proceedings of SPIE, 2012, , .	0.8	1
44	The influence of forward-scattered light in transmission measurements of (exo)planetary atmospheres. Icarus, 2012, 221, 517-524.	2.5	33
45	Evidence for the disintegration of KIC 12557548 b. Astronomy and Astrophysics, 2012, 545, L5.	5.1	56
46	Optical constants of Titanâ€™s stratospheric aerosols in the 70â€“1500cmâ^'1 spectral range constrained by Cassini/CIRS observations. Icarus, 2012, 219, 5-12.	2.5	82
47	Spatial and temporal variations in Titan's surface temperatures from Cassini CIRS observations. Planetary and Space Science, 2012, 60, 62-71.	1.7	63
48	Optical to near-infrared transit observations of super-Earth GJÂ1214b: water-world or mini-Neptune?. Astronomy and Astrophysics, 2012, 538, A46.	5.1	90
49	SEASONAL DISAPPEARANCE OF FAR-INFRARED HAZE IN TITAN'S STRATOSPHERE. Astrophysical Journal Letters, 2012, 754, L3.	8.3	26
50	The GROUSE project. Astronomy and Astrophysics, 2011, 528, A49.	5.1	30
51	CHARACTERIZING EXOPLANETARY ATMOSPHERES THROUGH INFRARED POLARIMETRY. Astrophysical Journal, 2011, 741, 59.	4.5	67
52	Scattering particles in nightside limb observations of Venusâ€™ upper atmosphere by Venus Express VIRTIS. Icarus, 2011, 211, 51-57.	2.5	36
53	A single-scattering approximation for infrared radiative transfer in limb geometry in the Martian atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1568-1580.	2.3	84
54	The influence of non-isotropic scattering of thermal radiation on spectra of brown dwarfs and hot exoplanets. Astronomy and Astrophysics, 2011, 531, A67.	5.1	17

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55	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
56	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
57	The GROUnd-based Secondary Eclipse project - GROUSE. Proceedings of the International Astronomical Union, 2010, 6, 487-488.	0.0	0
58	SEASONAL CHANGES IN TITAN'S POLAR TRACE GAS ABUNDANCE OBSERVED BY CASSINI. Astrophysical Journal Letters, 2010, 724, L84-L89.	8.3	34
59	Far-infrared opacity sources in Titanâ€™s troposphere reconsidered. Icarus, 2010, 209, 854-857.	2.5	14
60	Compositional evidence for Titan's stratospheric tilt. Planetary and Space Science, 2010, 58, 792-800.	1.7	15
61	Potential for stratospheric Doppler windspeed measurements of Jupiter by sub-millimetre spectroscopy. Planetary and Space Science, 2010, 58, 1489-1499.	1.7	0
62	A tropical haze band in Titanâ€™s stratosphere. Icarus, 2010, 207, 485-490.	2.5	16
63	Analysis of Cassini/CIRS limb spectra of Titan acquired during the nominal mission II: Aerosol extinction profiles in the 600â€“1420 cmâ¯1 spectral range. Icarus, 2010, 210, 852-866.	2.5	45
64	The orbital motion, absolute mass and high-altitude winds of exoplanet HDâ€‰209458b. Nature, 2010, 465, 1049-1051.	27.8	580
65	Mapping Titan's HCN in the far infra-red: implications for photochemistry. Faraday Discussions, 2010, 147, 51.	3.2	31
66	Titan's stratospheric C2N2, C3H4, and C4H2 abundances from Cassini/CIRS far-infrared spectra. Icarus, 2009, 202, 620-631.	2.5	96
67	Small-scale composition and haze layering in Titanâ€™s polar vortex. Icarus, 2009, 204, 645-657.	2.5	16
68	Dynamical implications of seasonal and spatial variations in Titan's stratospheric composition. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 697-711.	3.4	50
69	The NEMESIS planetary atmosphere radiative transfer and retrieval tool. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1136-1150.	2.3	415
70	Global and temporal variations in hydrocarbons and nitriles in Titan's stratosphere for northern winter observed by Cassini/CIRS. Icarus, 2008, 193, 595-611.	2.5	65
71	The 12C/13C isotopic ratio in Titan hydrocarbons from Cassini/CIRS infrared spectra. Icarus, 2008, 195, 778-791.	2.5	62
72	Condensation in Titan's stratosphere during polar winter. Icarus, 2008, 197, 572-578.	2.5	27

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73	Tropospheric carbon monoxide concentrations and variability on Venus from Venus Express/VIRTISâ€M observations. Journal of Geophysical Research, 2008, 113, .	3.3	37
74	Spatial variability of carbon monoxide in Venus' mesosphere from Venus Express/Visible and Infrared Thermal Imaging Spectrometer measurements. Journal of Geophysical Research, 2008, 113, .	3.3	48
75	Titan's winter polar vortex structure revealed by chemical tracers. Journal of Geophysical Research, 2008, 113, .	3.3	58
76	Temperature and Composition of Saturn's Polar Hot Spots and Hexagon. Science, 2008, 319, 79-81.	12.6	103
77	The meridional phosphine distribution in Saturn's upper troposphere from Cassini/CIRS observations. Icarus, 2007, 188, 72-88.	2.5	35
78	Vertical abundance profiles of hydrocarbons in Titan's atmosphere at 15Â° S and 80Â° N retrieved from Cassini/CIRS spectra. Icarus, 2007, 188, 120-138.	2.5	176
79	Characterising Saturn's vertical temperature structure from Cassini/CIRS. Icarus, 2007, 189, 457-478.	2.5	80
80	Meridional variations in stratospheric acetylene and ethane in the southern hemisphere of the saturnian atmosphere as determined from Cassini/CIRS measurements. Icarus, 2007, 190, 556-572.	2.5	30
81	Oxygen compounds in Titan's stratosphere as observed by Cassini CIRS. Icarus, 2007, 186, 354-363.	2.5	127
82	Vertical profiles of HCN, HC3N, and C2H2 in Titan's atmosphere derived from Cassini/CIRS data. Icarus, 2007, 186, 364-384.	2.5	121
83	Characteristics of Titan's stratospheric aerosols and condensate clouds from Cassini CIRS far-infrared spectra. Icarus, 2007, 191, 223-235.	2.5	95
84	Latitudinal variations of HCN, HC3N, and C2N2 in Titan's stratosphere derived from Cassini CIRS data. Icarus, 2006, 181, 243-255.	2.5	105
85	Spatial and temporal patterns of snowmelt refreezing in a Himalayan catchment. Journal of Glaciology, 0, , 1-21.	2.2	3