

# Kevin J Zahnle

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

6,900  
citations

126858

33  
h-index

289141

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

4729  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing the Mysteries of Venus: The DAVINCI Mission. Planetary Science Journal, 2022, 3, 117.	1.5	62
2	The Archean atmosphere. Science Advances, 2020, 6, eaax1420.	4.7	276
3	Creation and Evolution of Impact-generated Reduced Atmospheres of Early Earth. Planetary Science Journal, 2020, 1, 11.	1.5	101
4	Impact Degassing of H <sub>2</sub> on Early Mars and its Effect on the Climate System. Geophysical Research Letters, 2019, 46, 13355-13362.	1.5	32
5	Venus as a Laboratory for Exoplanetary Science. Journal of Geophysical Research E: Planets, 2019, 124, 2015-2028.	1.5	59
6	Strange messenger: A new history of hydrogen on Earth, as told by Xenon. Geochimica Et Cosmochimica Acta, 2019, 244, 56-85.	1.6	109
7	An Optical Transmission Spectrum for the Ultra-hot Jupiter WASP-121b Measured with the Hubble Space Telescope. Astronomical Journal, 2018, 156, 283.	1.9	106
8	The Longevity of Water Ice on Ganymedes and Europas around Migrated Giant Planets. Astrophysical Journal, 2017, 839, 32.	1.6	11
9	Sulfur Hazes in Giant Exoplanet Atmospheres: Impacts on Reflected Light Spectra. Astronomical Journal, 2017, 153, 139.	1.9	71
10	The Cosmic Shoreline: The Evidence that Escape Determines which Planets Have Atmospheres, and what this May Mean for Proxima Centauri B. Astrophysical Journal, 2017, 843, 122.	1.6	134
11	Ancient air caught by shooting stars. Nature, 2016, 533, 184-186.	13.7	10
12	DEVELOPING ATMOSPHERIC RETRIEVAL METHODS FOR DIRECT IMAGING SPECTROSCOPY OF GAS GIANTS IN REFLECTED LIGHT. I. METHANE ABUNDANCES AND BASIC CLOUD PROPERTIES. Astronomical Journal, 2016, 152, 217.	1.9	76
13	THERMAL EMISSION AND REFLECTED LIGHT SPECTRA OF SUPER EARTHS WITH FLAT TRANSMISSION SPECTRA. Astrophysical Journal, 2015, 815, 110.	1.6	196
14	Play it again, SAM. Science, 2015, 347, 370-371.	6.0	24
15	METHANE, CARBON MONOXIDE, AND AMMONIA IN BROWN DWARFS AND SELF-LUMINOUS GIANT PLANETS. Astrophysical Journal, 2014, 797, 41.	1.6	149
16	THE ATMOSPHERES OF EARTHLIKE PLANETS AFTER GIANT IMPACT EVENTS. Astrophysical Journal, 2014, 784, 27.	1.6	132
17	Low simulated radiation limit for runaway greenhouse climates. Nature Geoscience, 2013, 6, 661-667.	5.4	126
18	QUANTITATIVELY ASSESSING THE ROLE OF CLOUDS IN THE TRANSMISSION SPECTRUM OF GJ 1214b. Astrophysical Journal, 2013, 775, 33.	1.6	189

#	ARTICLE	IF	CITATIONS
19	Habitable Zone Limits for Dry Planets. <i>Astrobiology</i> , 2011, 11, 443-460.	1.5	240
20	Titan impacts and escape. <i>Icarus</i> , 2011, 211, 707-721.	1.1	10
21	Earth's Earliest Atmospheres. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a004895-a004895.	2.3	216
22	Nitrogen-enhanced greenhouse warming on early Earth. <i>Nature Geoscience</i> , 2009, 2, 891-896.	5.4	247
23	The Planetary Air Leak. <i>Scientific American</i> , 2009, 300, 36-43.	1.0	51
24	Creating Habitable Zones, at all Scales, from Planets to Mud Micro-Habitats, on Earth and on Mars. <i>Space Science Reviews</i> , 2007, 129, 79-121.	3.7	34
25	Emergence of a Habitable Planet. <i>Space Science Reviews</i> , 2007, 129, 35-78.	3.7	334
26	Impacts and the Early Evolution of Life. , 2006, , 207-251.		30
27	Why O <sub>2</sub> Required by Complex Life on Habitable Planets and the Concept of Planetary "Oxygenation Time". <i>Astrobiology</i> , 2005, 5, 415-438.	1.5	276
28	Cratering rates in the outer Solar System. <i>Icarus</i> , 2003, 163, 263-289.	1.1	497
29	Carbon dioxide cycling and implications for climate on ancient Earth. <i>Journal of Geophysical Research</i> , 2001, 106, 1373-1399.	3.3	474
30	Biogenic Methane, Hydrogen Escape, and the Irreversible Oxidation of Early Earth. <i>Science</i> , 2001, 293, 839-843.	6.0	426
31	Cratering Rates on the Galilean Satellites. <i>Icarus</i> , 1998, 136, 202-222.	1.1	232
32	Leaving no stone unburned. <i>Nature</i> , 1996, 383, 674-675.	13.7	11
33	Influx of cometary volatiles to planetary moons: The atmospheres of 1000 possible Titans. <i>Journal of Geophysical Research</i> , 1995, 100, 16907.	3.3	57
34	The 1908 Tunguska explosion: atmospheric disruption of a stony asteroid. <i>Nature</i> , 1993, 361, 40-44.	13.7	410
35	Xenological constraints on the impact erosion of the early Martian atmosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 10899-10913.	3.3	42
36	Impact-generated atmospheres over Titan, Ganymede, and Callisto. <i>Icarus</i> , 1992, 95, 1-23.	1.1	79

#	ARTICLE	IF	CITATIONS
37	Annihilation of ecosystems by large asteroid impacts on the early Earth. <i>Nature</i> , 1989, 342, 139-142.	13.7	508
38	Evolution of a steam atmosphere during earth's accretion. <i>Icarus</i> , 1988, 74, 62-97.	1.1	267
39	Photochemistry of methane and the formation of hydrocyanic acid (HCN) in the Earth's early atmosphere. <i>Journal of Geophysical Research</i> , 1986, 91, 2819-2834.	3.3	222
40	Mass fractionation during transonic escape and implications for loss of water from Mars and Venus. <i>Icarus</i> , 1986, 68, 462-480.	1.1	153
41	The evolution of solar ultraviolet luminosity. <i>Reviews of Geophysics</i> , 1982, 20, 280-292.	9.0	221