Kevin J Zahnle

List of Publications by Year
in descending order

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Version: 2024-02-01

41	6,900	126907	289244
papers	citations	33 h-index	40 g-index

41	41	41	4729
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Annihilation of ecosystems by large asteroid impacts on the early Earth. Nature, 1989, 342, 139-142.	27.8	508
2	Cratering rates in the outer Solar System. Icarus, 2003, 163, 263-289.	2.5	497
3	Carbon dioxide cycling and implications for climate on ancient Earth. Journal of Geophysical Research, 2001, 106, 1373-1399.	3.3	474
4	Biogenic Methane, Hydrogen Escape, and the Irreversible Oxidation of Early Earth. Science, 2001, 293, 839-843.	12.6	426
5	The 1908 Tunguska explosion: atmospheric disruption of a stony asteroid. Nature, 1993, 361, 40-44.	27.8	410
6	Emergence of a Habitable Planet. Space Science Reviews, 2007, 129, 35-78.	8.1	334
7	Why O2Is Required by Complex Life on Habitable Planets and the Concept of Planetary "Oxygenation Time". Astrobiology, 2005, 5, 415-438.	3.0	276
8	The Archean atmosphere. Science Advances, 2020, 6, eaax1420.	10.3	276
9	Evolution of a steam atmosphere during earth's accretion. Icarus, 1988, 74, 62-97.	2.5	267
10	Nitrogen-enhanced greenhouse warming on earlyÂEarth. Nature Geoscience, 2009, 2, 891-896.	12.9	247
11	Habitable Zone Limits for Dry Planets. Astrobiology, 2011, 11, 443-460.	3.0	240
12	Cratering Rates on the Galilean Satellites. Icarus, 1998, 136, 202-222.	2.5	232
13	Photochemistry of methane and the formation of hydrocyanic acid (HCN) in the Earth's early atmosphere. Journal of Geophysical Research, 1986, 91, 2819-2834.	3.3	222
14	The evolution of solar ultraviolet luminosity. Reviews of Geophysics, 1982, 20, 280-292.	23.0	221
15	Earth's Earliest Atmospheres. Cold Spring Harbor Perspectives in Biology, 2010, 2, a004895-a004895.	5.5	216
16	THERMAL EMISSION AND REFLECTED LIGHT SPECTRA OF SUPER EARTHS WITH FLAT TRANSMISSION SPECTRA. Astrophysical Journal, 2015, 815, 110.	4.5	196
17	QUANTITATIVELY ASSESSING THE ROLE OF CLOUDS IN THE TRANSMISSION SPECTRUM OF GJ 1214b. Astrophysical Journal, 2013, 775, 33.	4.5	189
18	Mass fractionation during transonic escape and implications for loss of water from Mars and Venus. Icarus, 1986, 68, 462-480.	2.5	153

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19	METHANE, CARBON MONOXIDE, AND AMMONIA IN BROWN DWARFS AND SELF-LUMINOUS GIANT PLANETS. Astrophysical Journal, 2014, 797, 41.	4.5	149
20	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.	4.5	134
21	THE ATMOSPHERES OF EARTHLIKE PLANETS AFTER GIANT IMPACT EVENTS. Astrophysical Journal, 2014, 784, 27.	4.5	132
22	Low simulated radiation limit for runaway greenhouse climates. Nature Geoscience, 2013, 6, 661-667.	12.9	126
23	Strange messenger: A new history of hydrogen on Earth, as told by Xenon. Geochimica Et Cosmochimica Acta, 2019, 244, 56-85.	3.9	109
24	An Optical Transmission Spectrum for the Ultra-hot Jupiter WASP-121b Measured with the Hubble Space Telescope. Astronomical Journal, 2018, 156, 283.	4.7	106
25	Creation and Evolution of Impact-generated Reduced Atmospheres of Early Earth. Planetary Science Journal, 2020, 1, 11.	3.6	101
26	Impact-generated atmospheres over Titan, Ganymede, and Callisto. Icarus, 1992, 95, 1-23.	2.5	79
27	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.	4.7	76
28	Sulfur Hazes in Giant Exoplanet Atmospheres: Impacts on Reflected Light Spectra. Astronomical Journal, 2017, 153, 139.	4.7	71
29	Revealing the Mysteries of Venus: The DAVINCI Mission. Planetary Science Journal, 2022, 3, 117.	3.6	62
30	Venus as a Laboratory for Exoplanetary Science. Journal of Geophysical Research E: Planets, 2019, 124, 2015-2028.	3.6	59
31	Influx of cometary volatiles to planetary moons: The atmospheres of 1000 possible Titans. Journal of Geophysical Research, 1995, 100, 16907.	3.3	57
32	The Planetary Air Leak. Scientific American, 2009, 300, 36-43.	1.0	51
33	Xenological constraints on the impact erosion of the early Martian atmosphere. Journal of Geophysical Research, 1993, 98, 10899-10913.	3.3	42
34	Creating Habitable Zones, at all Scales, from Planets to Mud Micro-Habitats, on Earth and on Mars. Space Science Reviews, 2007, 129, 79-121.	8.1	34
35	Impact Degassing of H₂ on Early Mars and its Effect on the Climate System. Geophysical Research Letters, 2019, 46, 13355-13362.	4.0	32
36	Impacts and the Early Evolution of Life. , 2006, , 207-251.		30

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37	Play it again, SAM. Science, 2015, 347, 370-371.	12.6	24
38	Leaving no stone unburned. Nature, 1996, 383, 674-675.	27.8	11
39	The Longevity of Water Ice on Ganymedes and Europas around Migrated Giant Planets. Astrophysical Journal, 2017, 839, 32.	4.5	11
40	Titan impacts and escape. Icarus, 2011, 211, 707-721.	2.5	10
41	Ancient air caught by shooting stars. Nature, 2016, 533, 184-186.	27.8	10