James F Kasting

List of Publications by Year
in descending order

28 papers	9,405 citations	257357 24 h-index	501076 28 g-index
29 all docs	29 docs citations	29 times ranked	4902 citing authors

#	Article	IF	Citations
1	Triple oxygen isotope constraints on atmospheric O ₂ and biological productivity during the mid-Proterozoic. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
2	Oxidized micrometeorites suggest either high p CO ₂ or low p N ₂ during the Neoarchean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1360-1366.	3.3	21
3	Abiotic O₂ Levels on Planets around F, G, K, and M Stars: Effects of Lightning-produced Catalysts in Eliminating Oxygen False Positives. Astrophysical Journal, 2018, 866, 56.	1.6	43
4	Nitrous oxide from chemodenitrification: A possible missing link in the Proterozoic greenhouse and the evolution of aerobic respiration. Geobiology, 2018, 16, 597-609.	1.1	39
5	Snowball Earth: Asynchronous coupling of seaâ€glacier flow with a global climate model. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5157-5171.	1.2	6
6	A CATALOG OF KEPLER HABITABLE ZONE EXOPLANET CANDIDATES. Astrophysical Journal, 2016, 830, 1.	1.6	133
7	THE INNER EDGE OF THE HABITABLE ZONE FOR SYNCHRONOUSLY ROTATING PLANETS AROUND LOW-MASS STARS USING GENERAL CIRCULATION MODELS. Astrophysical Journal, 2016, 819, 84.	1.6	168
8	ABIOTIC O₂LEVELS ON PLANETS AROUND F, G, K, AND M STARS: POSSIBLE FALSE POSITIVES FOR LIFE?. Astrophysical Journal, 2015, 812, 137.	1.6	173
9	Remote life-detection criteria, habitable zone boundaries, and the frequency of Earth-like planets around M and late K stars. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12641-12646.	3.3	103
10	HABITABLE ZONES AROUND MAIN-SEQUENCE STARS: DEPENDENCE ON PLANETARY MASS. Astrophysical Journal Letters, 2014, 787, L29.	3.0	443
11	HABITABLE ZONES AROUND MAIN-SEQUENCE STARS: NEW ESTIMATES. Astrophysical Journal, 2013, 765, 131.	1.6	1,142
12	Greenhouse warming by nitrous oxide and methane in the Proterozoic Eon. Geobiology, 2011, 9, 313-320.	1.1	64
13	Abiotic formation of O₂and O₃in high-CO₂terrestrial atmospheres. Astronomy and Astrophysics, 2007, 472, 665-679.	2.1	128
14	Reply to comment by Stephen G. Warren and Richard E. Brandt on â€œSnowball Earth: A thin-ice solution with flowing sea glaciersâ€• Journal of Geophysical Research, 2006, 111, .	3.3	16
15	Snowball Earth: A thin-ice solution with flowing sea glaciers. Journal of Geophysical Research, 2005, 110, .	3.3	108
16	Ozone Concentrations and Ultraviolet Fluxes on Earth-Like Planets Around Other Stars. Astrobiology, 2003, 3, 689-708.	1.5	317
17	Methane-rich Proterozoic atmosphere?. Geology, 2003, 31, 87.	2.0	255
18	Remote Sensing of Planetary Properties and Biosignatures on Extrasolar Terrestrial Planets. Astrobiology, 2002, 2, 153-181.	1.5	433

#	Article	IF	Citations
19	Mass-Independent Fractionation of Sulfur Isotopes in Archean Sediments: Strong Evidence for an Anoxic Archean Atmosphere. Astrobiology, 2002, 2, 27-41.	1.5	781
20	Influence of Carbon Dioxide Clouds on Early Martian Climate. Icarus, 2000, 145, 546-554.	1.1	162
21	Habitable Zones around Main Sequence Stars. Icarus, 1993, 101, 108-128.	1.1	1,935
22	Earth's early atmosphere. Science, 1993, 259, 920-926.	6.0	1,251
23	Mantle Redox Evolution and the Oxidation State of the Archean Atmosphere. Journal of Geology, 1993, 101, 245-257.	0.7	300
24	Bolide impacts and the oxidation state of carbon in the Earth's early atmosphere. Origins of Life and Evolution of Biospheres, 1990, 20, 199-231.	0.8	243
25	Runaway and moist greenhouse atmospheres and the evolution of Earth and Venus. Icarus, 1988, 74, 472-494.	1.1	594
26	Oxidant abundances in rainwater and the evolution of atmospheric oxygen. Journal of Geophysical Research, 1985, 90, 10497-10510.	3.3	101
27	Stability of ammonia in the primitive terrestrial atmosphere. Journal of Geophysical Research, 1982, 87, 3091-3098.	3.3	114
28	The evolution of atmospheric ozone. Journal of Geophysical Research, 1980, 85, 3255-3263.	3.3	125