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	Habitable Zones around Main Sequence Stars. Icarus, 1993, 101, 108-128.	1.1	1,935
2	Earth's early atmosphere. Science, 1993, 259, 920-926.	6.0	1,251
3	HABITABLE ZONES AROUND MAIN-SEQUENCE STARS: NEW ESTIMATES. Astrophysical Journal, 2013, 765, 131.	1.6	1,142
4	Mass-Independent Fractionation of Sulfur Isotopes in Archean Sediments: Strong Evidence for an Anoxic Archean Atmosphere. Astrobiology, 2002, 2, 27-41.	1.5	781
5	Runaway and moist greenhouse atmospheres and the evolution of Earth and Venus. Icarus, 1988, 74, 472-494.	1.1	594
6	HABITABLE ZONES AROUND MAIN-SEQUENCE STARS: DEPENDENCE ON PLANETARY MASS. Astrophysical Journal Letters, 2014, 787, L29.	3.0	443
7	Remote Sensing of Planetary Properties and Biosignatures on Extrasolar Terrestrial Planets. Astrobiology, 2002, 2, 153-181.	1.5	433
8	Ozone Concentrations and Ultraviolet Fluxes on Earth-Like Planets Around Other Stars. Astrobiology, 2003, 3, 689-708.	1.5	317
9	Mantle Redox Evolution and the Oxidation State of the Archean Atmosphere. Journal of Geology, 1993, 101, 245-257.	0.7	300
10	Methane-rich Proterozoic atmosphere?. Geology, 2003, 31, 87.	2.0	255
11	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
12	ABIOTIC O₂LEVELS ON PLANETS AROUND F, G, K, AND M STARS: POSSIBLE FALSE POSITIVES FOR LIFE?. Astrophysical Journal, 2015, 812, 137.	1.6	173
13	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
14	Influence of Carbon Dioxide Clouds on Early Martian Climate. Icarus, 2000, 145, 546-554.	1.1	162
15	A CATALOG OF KEPLER HABITABLE ZONE EXOPLANET CANDIDATES. Astrophysical Journal, 2016, 830, 1.	1.6	133
16	Abiotic formation of O₂and O₃in high-CO₂terrestrial atmospheres. Astronomy and Astrophysics, 2007, 472, 665-679.	2.1	128
17	The evolution of atmospheric ozone. Journal of Geophysical Research, 1980, 85, 3255-3263.	3.3	125
18	Stability of ammonia in the primitive terrestrial atmosphere. Journal of Geophysical Research, 1982, 87, 3091-3098.	3.3	114

#	Article	IF	Citations
19	Snowball Earth: A thin-ice solution with flowing sea glaciers. Journal of Geophysical Research, 2005, 110, .	3.3	108
20	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
21	Oxidant abundances in rainwater and the evolution of atmospheric oxygen. Journal of Geophysical Research, 1985, 90, 10497-10510.	3.3	101
22	Greenhouse warming by nitrous oxide and methane in the Proterozoic Eon. Geobiology, 2011, 9, 313-320.	1.1	64
23	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
24	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
25	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
26	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
27	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
28	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