

James F Kasting

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

9,405
citations

257450

24
h-index

501196

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. <i>Icarus</i> , 1993, 101, 108-128.	2.5	1,935
2	Earth's Early Atmosphere. <i>Science</i> , 1993, 259, 920-926.	12.6	1,251
3	HABITABLE ZONES AROUND MAIN-SEQUENCE STARS: NEW ESTIMATES. <i>Astrophysical Journal</i> , 2013, 765, 131.	4.5	1,142
4	Mass-Independent Fractionation of Sulfur Isotopes in Archean Sediments: Strong Evidence for an Anoxic Archean Atmosphere. <i>Astrobiology</i> , 2002, 2, 27-41.	3.0	781
5	Runaway and moist greenhouse atmospheres and the evolution of Earth and Venus. <i>Icarus</i> , 1988, 74, 472-494.	2.5	594
6	HABITABLE ZONES AROUND MAIN-SEQUENCE STARS: DEPENDENCE ON PLANETARY MASS. <i>Astrophysical Journal Letters</i> , 2014, 787, L29.	8.3	443
7	Remote Sensing of Planetary Properties and Biosignatures on Extrasolar Terrestrial Planets. <i>Astrobiology</i> , 2002, 2, 153-181.	3.0	433
8	Ozone Concentrations and Ultraviolet Fluxes on Earth-Like Planets Around Other Stars. <i>Astrobiology</i> , 2003, 3, 689-708.	3.0	317
9	Mantle Redox Evolution and the Oxidation State of the Archean Atmosphere. <i>Journal of Geology</i> , 1993, 101, 245-257.	1.4	300
10	Methane-rich Proterozoic atmosphere?. <i>Geology</i> , 2003, 31, 87.	4.4	255
11	Bolide impacts and the oxidation state of carbon in the Earth's early atmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 1990, 20, 199-231.	1.9	243
12	ABIOTIC O ₂ LEVELS ON PLANETS AROUND F, G, K, AND M STARS: POSSIBLE FALSE POSITIVES FOR LIFE?. <i>Astrophysical Journal</i> , 2015, 812, 137.	4.5	173
13	THE INNER EDGE OF THE HABITABLE ZONE FOR SYNCHRONOUSLY ROTATING PLANETS AROUND LOW-MASS STARS USING GENERAL CIRCULATION MODELS. <i>Astrophysical Journal</i> , 2016, 819, 84.	4.5	168
14	Influence of Carbon Dioxide Clouds on Early Martian Climate. <i>Icarus</i> , 2000, 145, 546-554.	2.5	162
15	A CATALOG OF KEPLER HABITABLE ZONE EXOPLANET CANDIDATES. <i>Astrophysical Journal</i> , 2016, 830, 1.	4.5	133
16	Abiotic formation of O ₂ and O ₃ in high-CO ₂ terrestrial atmospheres. <i>Astronomy and Astrophysics</i> , 2007, 472, 665-679.	5.1	128
17	The evolution of atmospheric ozone. <i>Journal of Geophysical Research</i> , 1980, 85, 3255-3263.	3.3	125
18	Stability of ammonia in the primitive terrestrial atmosphere. <i>Journal of Geophysical Research</i> , 1982, 87, 3091-3098.	3.3	114

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19	Snowball Earth: A thin-ice solution with flowing sea glaciers. <i>Journal of Geophysical Research</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12641-12646.	7.1	103
21	Oxidant abundances in rainwater and the evolution of atmospheric oxygen. <i>Journal of Geophysical Research</i> , 1985, 90, 10497-10510.	3.3	101
22	Greenhouse warming by nitrous oxide and methane in the Proterozoic Eon. <i>Geobiology</i> , 2011, 9, 313-320.	2.4	64
23	Abiotic O ₂ Levels on Planets around F, G, K, and M Stars: Effects of Lightning-produced Catalysts in Eliminating Oxygen False Positives. <i>Astrophysical Journal</i> , 2018, 866, 56.	4.5	43
24	Nitrous oxide from chemodenitrification: A possible missing link in the Proterozoic greenhouse and the evolution of aerobic respiration. <i>Geobiology</i> , 2018, 16, 597-609.	2.4	39
25	Oxidized micrometeorites suggest either high <i>p</i> CO ₂ or low <i>p</i> N ₂ during the Neoproterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1360-1366.	7.1	21
26	Reply to comment by Stephen G. Warren and Richard E. Brandt on "Snowball Earth: A thin-ice solution with flowing sea glaciers". <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	16
27	Triple oxygen isotope constraints on atmospheric O ₂ and biological productivity during the mid-Proterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
28	Snowball Earth: Asynchronous coupling of sea-ice glacier flow with a global climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5157-5171.	3.3	6