

Joshua Krissansen-Totton

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,176
citations

471509

17
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

1109
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding planetary context to enable life detection on exoplanets and test the Copernican principle. <i>Nature Astronomy</i> , 2022, 6, 189-198.	10.1	13
2	The case and context for atmospheric methane as an exoplanet biosignature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117933119.	7.1	35
3	High Organic Burial Efficiency Is Required to Explain Mass Balance in Earth's Early Carbon Cycle. <i>Global Biogeochemical Cycles</i> , 2021, 35, .	4.9	17
4	Carbon cycle inverse modeling suggests large changes in fractional organic burial are consistent with the carbon isotope record and may have contributed to the rise of oxygen. <i>Geobiology</i> , 2021, 19, 342-363.	2.4	23
5	Oxygen False Positives on Habitable Zone Planets Around Sun-Like Stars. <i>AGU Advances</i> , 2021, 2, e2020AV000294.	5.4	18
6	Waterworlds Probably Do Not Experience Magmatic Outgassing. <i>Astrophysical Journal</i> , 2021, 913, 107.	4.5	16
7	Was Venus Ever Habitable? Constraints from a Coupled Interior-Atmosphere Redox Evolution Model. <i>Planetary Science Journal</i> , 2021, 2, 216.	3.6	25
8	Probable Cold and Alkaline Surface Environment of the Hadean Earth Caused by Impact Ejecta Weathering. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008734.	2.5	37
9	Carbonate-silicate cycle predictions of Earth-like planetary climates and testing the habitable zone concept. <i>Nature Communications</i> , 2020, 11, 6153.	12.8	22
10	Understanding and mitigating biases when studying inhomogeneous emission spectra with JWST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4342-4354.	4.4	63
11	A coupled carbon-silicon cycle model over Earth history: Reverse weathering as a possible explanation of a warm mid-Proterozoic climate. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116181.	4.4	32
12	Abundant Atmospheric Methane from Volcanism on Terrestrial Planets Is Unlikely and Strengthens the Case for Methane as a Biosignature. <i>Planetary Science Journal</i> , 2020, 1, 58.	3.6	26
13	A Maximum Subsurface Biomass on Mars from Untapped Free Energy: CO and H ₂ as Potential Antibiosignatures. <i>Astrobiology</i> , 2019, 19, 655-668.	3.0	19
14	Exoplanet Biosignatures: A Framework for Their Assessment. <i>Astrobiology</i> , 2018, 18, 709-738.	3.0	139
15	Disequilibrium biosignatures over Earth history and implications for detecting exoplanet life. <i>Science Advances</i> , 2018, 4, eaao5747.	10.3	111
16	Constraining the climate and ocean pH of the early Earth with a geological carbon cycle model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4105-4110.	7.1	203
17	Detectability of Biosignatures in Anoxic Atmospheres with the James Webb Space Telescope: A TRAPPIST-1e Case Study. <i>Astronomical Journal</i> , 2018, 156, 114.	4.7	98
18	The Exo-Life Finder (ELF) telescope: New strategies for direct detection of exoplanet biosignatures and technosignatures. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
19	Constraining climate sensitivity and continental versus seafloor weathering using an inverse geological carbon cycle model. <i>Nature Communications</i> , 2017, 8, 15423.	12.8	88
20	On Detecting Biospheres from Chemical Thermodynamic Disequilibrium in Planetary Atmospheres. <i>Astrobiology</i> , 2016, 16, 39-67.	3.0	94
21	IS THE PALE BLUE DOT UNIQUE? OPTIMIZED PHOTOMETRIC BANDS FOR IDENTIFYING EARTH-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2016, 817, 31.	4.5	31
22	Transient Sulfate Aerosols as a Signature of Exoplanet Volcanism. <i>Astrobiology</i> , 2015, 15, 462-477.	3.0	52
23	Investigation of cosmic rayâ€“cloud connections using MISR. <i>Geophysical Research Letters</i> , 2013, 40, 5240-5245.	4.0	9