John Lee Grenfell

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. Astrobiology, 2018, 18, 663-708.	3.0	328
2	Exoplanet Biosignatures: Observational Prospects. Astrobiology, 2018, 18, 739-778.	3.0	130
3	Origin and evolution of the atmospheres of early Venus, Earth and Mars. Astronomy and Astrophysics Review, 2018, 26, 1.	25.5	124
4	The response of atmospheric chemistry on earthlike planets around F, G and K Stars to small variations in orbital distance. Planetary and Space Science, 2007, 55, 661-671.	1.7	104
5	AstRoMap European Astrobiology Roadmap. Astrobiology, 2016, 16, 201-243.	3.0	99
6	Detectability of atmospheric features of Earth-like planets in the habitable zone around M dwarfs. Astronomy and Astrophysics, 2019, 624, A49.	5.1	84
7	Biomarker Response to Galactic Cosmic Ray-Induced NOx And The Methane Greenhouse Effect in The Atmosphere of An Earth-Like Planet Orbiting An M Dwarf Star. Astrobiology, 2007, 7, 208-221.	3.0	73
8	Response of Atmospheric Biomarkers to NO _{<i>x</i>} -Induced Photochemistry Generated by Stellar Cosmic Rays for Earth-like Planets in the Habitable Zone of M Dwarf Stars. Astrobiology, 2012, 12, 1109-1122.	3.0	52
9	What Factors Affect the Duration and Outgassing of the Terrestrial Magma Ocean?. Astrophysical Journal, 2019, 875, 11.	4.5	52
10	A review of exoplanetary biosignatures. Physics Reports, 2017, 713, 1-17.	25.6	47
11	The Role of N ₂ as a Geo-Biosignature for the Detection and Characterization of Earth-like Habitats. Astrobiology, 2019, 19, 927-950.	3.0	38
12	A new model suite to determine the influence of cosmic rays on (exo)planetary atmospheric biosignatures. Astronomy and Astrophysics, 2019, 631, A101.	5.1	23
13	The habitability of stagnant-lid Earths around dwarf stars. Astronomy and Astrophysics, 2019, 625, A12.	5.1	21
14	Detectability of biosignatures on LHS 1140 b. Astronomy and Astrophysics, 2021, 647, A48.	5.1	20
15	The Effect of Varying Atmospheric Pressure upon Habitability and Biosignatures of Earth-like Planets. Astrobiology, 2018, 18, 116-132.	3.0	14
16	Geoscience for Understanding Habitability in the Solar System and Beyond. Space Science Reviews, 2019, 215, 1.	8.1	14
17	Early Habitability and Crustal Decarbonation of a Stagnantâ€Lid Venus. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006895.	3.6	12
18	Possible Atmospheric Diversity of Low Mass Exoplanets – Some Central Aspects. Space Science Reviews, 2020, 216, 1.	8.1	11

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19	Atmospheric Nitrogen When Life Evolved on Earth. Astrobiology, 2020, 20, 1413-1426.	3.0	11
20	Potential of ozone formation by the smog mechanism to shield the surface of the early Earth from UV radiation. International Journal of Astrobiology, 2006, 5, 295-306.	1.6	6
21	Oxidation of CO on surface hematite in high CO2 atmospheres. Planetary and Space Science, 2010, 58, 1252-1257.	1.7	6
22	Atmospheric Characterization via Broadband Color Filters on the PLAnetary Transits and Oscillations of stars (PLATO) Mission. Experimental Astronomy, 2020, 50, 1-49.	3.7	6
23	The Exo-Life Finder (ELF) telescope: New strategies for direct detection of exoplanet biosignatures and technosignatures. , 2018, , .		5
24	CO-oxidation on surface hematite in hot atmospheres of rocky planets. Planetary and Space Science, 2013, 84, 14-19.	1.7	2
25	Influence of Biomass Emissions on Habitability, Biosignatures, and Detectability in Earth-like Atmospheres. Astrophysical Journal, 2021, 909, 128.	4.5	2
26	Exoplanets: Criteria for their Habitability and Possible Biospheres. Cellular Origin and Life in Extreme Habitats, 2013, , 13-29.	0.3	2
27	<scp>INCREASE</scp> : An updated model suite to study the <scp>INfluence</scp> of Cosmic Rays on Exoplanetary <scp>AtmoSpherEs</scp> . Astronomische Nachrichten, 2022, 343, .	1.2	2
28	Atmospheric Biosignatures. , 2018, , 1-14.		1
29	Atmospheric Biosignatures. , 2018, , 3159-3172.		1
30	Exoplanetary Biosignatures for Astrobiology. Advances in Astrobiology and Biogeophysics, 2019, , 223-249.	0.6	0
31	Habitability, Role of the Atmosphere. , 2021, , 1-6.		0
32	4.2.5 Exoplanets. Landolt-Bâ^šâ^,rnstein - Group VI Astronomy and Astrophysics, 2009, , 524-527.	0.1	0
33	Detection of Habitable Planets and the Search for Life. Cellular Origin and Life in Extreme Habitats, 2013, , 287-310.	0.3	0
34	Atmospheric Habitability. , 2014, , 1-7.		0
35	Atmospheric Habitability. , 2015, , 203-208.		0