

# John Lee Grenfell

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,290  
citations

623699

14  
h-index

552766

26  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1361  
citing authors

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

#	ARTICLE	IF	CITATIONS
19	Atmospheric Nitrogen When Life Evolved on Earth. <i>Astrobiology</i> , 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. <i>International Journal of Astrobiology</i> , 2006, 5, 295-306.	1.6	6
21	Oxidation of CO on surface hematite in high CO <sub>2</sub> atmospheres. <i>Planetary and Space Science</i> , 2010, 58, 1252-1257.	1.7	6
22	Atmospheric Characterization via Broadband Color Filters on the PLANetary Transits and Oscillations of stars (PLATO) Mission. <i>Experimental Astronomy</i> , 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. <i>Planetary and Space Science</i> , 2013, 84, 14-19.	1.7	2
25	Influence of Biomass Emissions on Habitability, Biosignatures, and Detectability in Earth-like Atmospheres. <i>Astrophysical Journal</i> , 2021, 909, 128.	4.5	2
26	Exoplanets: Criteria for their Habitability and Possible Biospheres. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 13-29.	0.3	2
27	<sc>INCREASE</sc>: An updated model suite to study the <sc>INfluence</sc> of Cosmic Rays on Exoplanetary <sc>AtmoSpherEs</sc>. <i>Astronomische Nachrichten</i> , 2022, 343, .	1.2	2
28	Atmospheric Biosignatures. , 2018, , 1-14.		1
29	Atmospheric Biosignatures. , 2018, , 3159-3172.		1
30	Exoplanetary Biosignatures for Astrobiology. <i>Advances in Astrobiology and Biogeophysics</i> , 2019, , 223-249.	0.6	0
31	Habitability, Role of the Atmosphere. , 2021, , 1-6.		0
32	4.2.5 Exoplanets. <i>Landolt-Bâˆšrnstein - Group VI Astronomy and Astrophysics</i> , 2009, , 524-527.	0.1	0
33	Detection of Habitable Planets and the Search for Life. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 287-310.	0.3	0
34	Atmospheric Habitability. , 2014, , 1-7.		0
35	Atmospheric Habitability. , 2015, , 203-208.		0