List of Publications by Year in descending order

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MANASYLLINCAM

#	Article	IF	CITATIONS
1	Atmospheric escape from the TRAPPIST-1 planets and implications for habitability. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 260-265.	7.1	159
2	ls Proxima Centauri b Habitable? A Study of Atmospheric Loss. Astrophysical Journal Letters, 2017, 837, L26.	8.3	143
3	The Dehydration of Water Worlds via Atmospheric Losses. Astrophysical Journal Letters, 2017, 847, L4.	8.3	64
4	Risks for Life on Habitable Planets from Superflares of Their Host Stars. Astrophysical Journal, 2017, 848, 41.	4.5	59
5	Plasmoid Instability in Forming Current Sheets. Astrophysical Journal, 2017, 850, 142.	4.5	58
6	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. Astrophysical Journal Letters, 2018, 859, L14.	8.3	51
7	Enhanced interplanetary panspermia in the TRAPPIST-1 system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6689-6693.	7.1	44
8	Fast Radio Bursts from Extragalactic Light Sails. Astrophysical Journal Letters, 2017, 837, L23.	8.3	43
9	Multi-fluid systems—Multi-Beltrami relaxed states and their implications. Physics of Plasmas, 2015, 22, .	1.9	42
10	Physical constraints on the likelihood of life on exoplanets. International Journal of Astrobiology, 2018, 17, 116-126.	1.6	40
11	Galactic Panspermia. Astrophysical Journal Letters, 2018, 868, L12.	8.3	40
12	Life in the Cosmos. , 2021, , .		40
13	Magnetohydrodynamic Turbulence in the Plasmoid-mediated Regime. Astrophysical Journal, 2018, 854, 103.	4.5	39
14	<i>Colloquium</i> : Physical constraints for the evolution of life on exoplanets. Reviews of Modern Physics, 2019, 91, .	45.6	39
15	Concomitant Hamiltonian and topological structures of extended magnetohydrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2400-2406.	2.1	38
16	Analytical families of two-component anisotropic polytropes and their relativistic extensions. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2014-2028.	4.4	34
17	Subsurface exolife. International Journal of Astrobiology, 2019, 18, 112-141.	1.6	33
18	Modelling astrophysical outflows via the unified dynamo–reverse dynamo mechanism. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 449, L36-L40.	3.3	30

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19	Relative Likelihood of Success in the Search for Primitive versus Intelligent Extraterrestrial Life. Astrobiology, 2019, 19, 28-39.	3.0	30
20	The Propitious Role of Solar Energetic Particles in the Origin of Life. Astrophysical Journal, 2018, 853, 10.	4.5	29
21	ls Extraterrestrial Life Suppressed on Subsurface Ocean Worlds due to the Paucity of Bioessential Elements?. Astronomical Journal, 2018, 156, 151.	4.7	29
22	Atmospheric Escape From TOI-700 d: Venus versus Earth Analogs. Astrophysical Journal Letters, 2020, 896, L24.	8.3	28
23	Natural and artificial spectral edges in exoplanets. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 470, L82-L86.	3.3	27
24	Role of Planetary Obliquity in Regulating Atmospheric Escape: G-dwarf versus M-dwarf Earth-like Exoplanets. Astrophysical Journal Letters, 2019, 882, L16.	8.3	26
25	Is life most likely around Sun-like stars?. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	25
26	Implications of Captured Interstellar Objects for Panspermia and Extraterrestrial Life. Astronomical Journal, 2018, 156, 193.	4.7	25
27	Photosynthesis on habitable planets around low-mass stars. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5924-5928.	4.4	24
28	Reduced Diversity of Life around Proxima Centauri and TRAPPIST-1. Astrophysical Journal Letters, 2017, 846, L21.	8.3	23
29	Dependence of Biological Activity on the Surface Water Fraction of Planets. Astronomical Journal, 2019, 157, 25.	4.7	23
30	Propulsion of Spacecraft to Relativistic Speeds Using Natural Astrophysical Sources. Astrophysical Journal, 2020, 894, 36.	4.5	23
31	EXTENDED MHD TURBULENCE AND ITS APPLICATIONS TO THE SOLAR WIND. Astrophysical Journal, 2016, 829, 87.	4.5	22
32	Derivation of the Hall and extended magnetohydrodynamics brackets. Physics of Plasmas, 2016, 23, .	1.9	22
33	Active Galactic Nuclei: Boon or Bane for Biota?. Astrophysical Journal, 2019, 877, 62.	4.5	22
34	Implications of Tides for Life on Exoplanets. Astrobiology, 2018, 18, 967-982.	3.0	21
35	Interstellar Travel and Galactic Colonization: Insights from Percolation Theory and the Yule Process. Astrobiology, 2016, 16, 418-426.	3.0	18
36	Role of stellar physics in regulating the critical steps for life. International Journal of Astrobiology, 2019, 18, 527-546.	1.6	16

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37	The Case for Technosignatures: Why They May Be Abundant, Long-lived, Highly Detectable, and Unambiguous. Astrophysical Journal Letters, 2022, 927, L30.	8.3	16
38	Brown Dwarf Atmospheres as the Potentially Most Detectable and Abundant Sites for Life. Astrophysical Journal, 2019, 883, 143.	4.5	14
39	Analytical approaches to modelling panspermia – beyond the mean-field paradigm. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2792-2803.	4.4	13
40	HALL CURRENT EFFECTS IN MEAN-FIELD DYNAMO THEORY. Astrophysical Journal, 2016, 829, 51.	4.5	12
41	Interstellar Now! Missions to Explore Nearby Interstellar Objects. Advances in Space Research, 2022, 69, 402-414.	2.6	12
42	On the structure and statistical theory of turbulence of extended magnetohydrodynamics. New Journal of Physics, 2017, 19, 015007.	2.9	11
43	Optimal Target Stars in the Search for Life. Astrophysical Journal Letters, 2018, 857, L17.	8.3	11
44	Photosynthesis on exoplanets and exomoons from reflected light. International Journal of Astrobiology, 2020, 19, 210-219.	1.6	10
45	A Precursor Balloon Mission for Venusian Astrobiology. Astrophysical Journal Letters, 2020, 903, L36.	8.3	10
46	A heuristic model for MRI turbulent stresses in Hall MHD. Monthly Notices of the Royal Astronomical Society, 2016, 460, 478-488.	4.4	9
47	A maximum entropy principle for inferring the distribution of 3D plasmoids. Physics of Plasmas, 2018, 25, .	1.9	9
48	Electric sails are potentially more effective than light sails near most stars. Acta Astronautica, 2020, 168, 146-154.	3.2	9
49	Detectability of Chlorofluorocarbons in the Atmospheres of Habitable M-dwarf Planets. Planetary Science Journal, 2022, 3, 60.	3.6	9
50	Multi-region relaxed Hall magnetohydrodynamics with flow. Physics of Plasmas, 2016, 23, 082103.	1.9	8
51	Revisiting the Biological Ramifications of Variations in Earth's Magnetic Field. Astrophysical Journal Letters, 2019, 874, L28.	8.3	8
52	Constraining Alfvénic turbulence with helicity invariants. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2771-2776.	4.4	8
53	Potential for Liquid Water Biochemistry Deep under the Surfaces of the Moon, Mars, and beyond. Astrophysical Journal Letters, 2020, 901, L11.	8.3	8
54	The double-power approach to spherically symmetric astrophysical systems. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2636-2664.	4.4	7

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55	Hall viscosity: A link between quantum Hall systems, plasmas and liquid crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1425-1430.	2.1	7
56	On the Habitable Lifetime of Terrestrial Worlds with High Radionuclide Abundances. Astrophysical Journal Letters, 2020, 889, L20.	8.3	7
57	A brief history of the term â€~habitable zone' in the 19th century. International Journal of Astrobiology, 2021, 20, 332-336.	1.6	7
58	Constraints on Aquatic Photosynthesis for Terrestrial Planets around Other Stars. Astrophysical Journal Letters, 2020, 889, L15.	8.3	7
59	Prospects for Life on Temperate Planets around Brown Dwarfs. Astrophysical Journal, 2020, 888, 102.	4.5	6
60	Dissipative effects in magnetohydrodynamical models with intrinsic magnetization. Communications in Nonlinear Science and Numerical Simulation, 2015, 28, 223-231.	3.3	5
61	Black hole Brownian motion in a rotating environment. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1719-1735.	4.4	5
62	Longevity and power density of intermediate-to-deep geothermal wells in district heating applications. European Physical Journal Plus, 2021, 136, 1.	2.6	5
63	Characteristics of aquatic biospheres on temperate planets around Sun-like stars and M dwarfs. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3434-3448.	4.4	5
64	The History and Origins of Directed Panspermia. Research Notes of the AAS, 2021, 5, 154.	0.7	5
65	Excitation Properties of Photopigments and Their Possible Dependence on the Host Star. Astrophysical Journal Letters, 2021, 921, L41.	8.3	5
66	A class of three-dimensional gyroviscous magnetohydrodynamic models. Journal of Plasma Physics, 2020, 86, .	2.1	4
67	Implications of Abiotic Oxygen Buildup for Earth-like Complex Life. Astronomical Journal, 2020, 159, 144.	4.7	4
68	What's in a name: the etymology of astrobiology. International Journal of Astrobiology, 2020, 19, 379-385.	1.6	4
69	Feasibility of Detecting Interstellar Panspermia in Astrophysical Environments. Astronomical Journal, 2021, 162, 23.	4.7	4
70	Theoretical Constraints Imposed by Gradient Detection and Dispersal on Microbial Size in Astrobiological Environments. Astrobiology, 2021, 21, 813-830.	3.0	4
71	Relativistic-amplitude electromagnetic waves—Beating the "magnetic―barrier. Physics of Plasmas, 2018, 25, 072112.	1.9	3
72	Limitations of Chemical Propulsion for Interstellar Escape from Habitable Zones Around Low-mass Stars. Research Notes of the AAS, 2018, 2, 154.	0.7	3

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73	A birth-death-migration model for life in astrophysical environments. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4365-4371.	4.4	3
74	Analytical solutions for weak black hole kicks. Astrophysics and Space Science, 2014, 354, 561-570.	1.4	2
75	Physical Constraints on Motility with Applications to Possible Life on Mars and Enceladus. Planetary Science Journal, 2021, 2, 101.	3.6	2
76	Constraints on the Abundance of 0.01 c Stellar Engines in the Milky Way. Astrophysical Journal, 2020, 905, 175.	4.5	2
77	Tidal modulations and the habitability of exoplanetary systems. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4837-4843.	4.4	2
78	The effects of a non-zero cosmological constant on the Veltmann models. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1548-1558.	4.4	0
79	Interstellar Now! Missions to and Sample Returns from Nearby Interstellar Objects. , 2021, 53, .		0
80	The Possible Role of Body Temperature in Modulating Brain and Body Sizes in Hominin Evolution. Frontiers in Psychology, 2021, 12, 774683.	2.1	0