Manasvi Lingam

List of Publications by Year
in descending order

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80 papers	1,714 citations	257450 24 h-index	330143 37 g-index
81 all docs	81 docs citations	81 times ranked	1644 citing authors

#	Article	IF	Citations
1	Interstellar Now! Missions to Explore Nearby Interstellar Objects. Advances in Space Research, 2022, 69, 402-414.	2.6	12
2	Tidal modulations and the habitability of exoplanetary systems. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4837-4843.	4.4	2
3	Detectability of Chlorofluorocarbons in the Atmospheres of Habitable M-dwarf Planets. Planetary Science Journal, 2022, 3, 60.	3.6	9
4	The Case for Technosignatures: Why They May Be Abundant, Long-lived, Highly Detectable, and Unambiguous. Astrophysical Journal Letters, 2022, 927, L30.	8.3	16
5	Longevity and power density of intermediate-to-deep geothermal wells in district heating applications. European Physical Journal Plus, 2021, 136, 1.	2.6	5
6	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
7	Interstellar Now! Missions to and Sample Returns from Nearby Interstellar Objects. , 2021, 53, .		0
8	Physical Constraints on Motility with Applications to Possible Life on Mars and Enceladus. Planetary Science Journal, 2021, 2, 101.	3.6	2
9	Feasibility of Detecting Interstellar Panspermia in Astrophysical Environments. Astronomical Journal, 2021, 162, 23.	4.7	4
10	The History and Origins of Directed Panspermia. Research Notes of the AAS, 2021, 5, 154.	0.7	5
11	A brief history of the term â€˜habitable zoneâ€™ in the 19th century. International Journal of Astrobiology, 2021, 20, 332-336.	1.6	7
12	Life in the Cosmos. , 2021, , .		40
13	Theoretical Constraints Imposed by Gradient Detection and Dispersal on Microbial Size in Astrobiological Environments. Astrobiology, 2021, 21, 813-830.	3.0	4
14	A birth-death-migration model for life in astrophysical environments. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4365-4371.	4.4	3
15	Excitation Properties of Photopigments and Their Possible Dependence on the Host Star. Astrophysical Journal Letters, 2021, 921, L41.	8.3	5
16	The Possible Role of Body Temperature in Modulating Brain and Body Sizes in Hominin Evolution. Frontiers in Psychology, 2021, 12, 774683.	2.1	0
17	Photosynthesis on exoplanets and exomoons from reflected light. International Journal of Astrobiology, 2020, 19, 210-219.	1.6	10
18	Electric sails are potentially more effective than light sails near most stars. Acta Astronautica, 2020, 168, 146-154.	3.2	9

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19	A class of three-dimensional gyroviscous magnetohydrodynamic models. Journal of Plasma Physics, 2020, 86, .	2.1	4
20	Propulsion of Spacecraft to Relativistic Speeds Using Natural Astrophysical Sources. Astrophysical Journal, 2020, 894, 36.	4.5	23
21	Constraining AlfvÃ©nic turbulence with helicity invariants. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2771-2776.	4.4	8
22	Atmospheric Escape From TOI-700 d: Venus versus Earth Analogs. Astrophysical Journal Letters, 2020, 896, L24.	8.3	28
23	Implications of Abiotic Oxygen Buildup for Earth-like Complex Life. Astronomical Journal, 2020, 159, 144.	4.7	4
24	What's in a name: the etymology of astrobiology. International Journal of Astrobiology, 2020, 19, 379-385.	1.6	4
25	Prospects for Life on Temperate Planets around Brown Dwarfs. Astrophysical Journal, 2020, 888, 102.	4.5	6
26	On the Habitable Lifetime of Terrestrial Worlds with High Radionuclide Abundances. Astrophysical Journal Letters, 2020, 889, L20.	8.3	7
27	Constraints on the Abundance of 0.01 c Stellar Engines in the Milky Way. Astrophysical Journal, 2020, 905, 175.	4.5	2
28	Constraints on Aquatic Photosynthesis for Terrestrial Planets around Other Stars. Astrophysical Journal Letters, 2020, 889, L15.	8.3	7
29	Potential for Liquid Water Biochemistry Deep under the Surfaces of the Moon, Mars, and beyond. Astrophysical Journal Letters, 2020, 901, L11.	8.3	8
30	A Precursor Balloon Mission for Venusian Astrobiology. Astrophysical Journal Letters, 2020, 903, L36.	8.3	10
31	Brown Dwarf Atmospheres as the Potentially Most Detectable and Abundant Sites for Life. Astrophysical Journal, 2019, 883, 143.	4.5	14
32	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
33	Active Galactic Nuclei: Boon or Bane for Biota?. Astrophysical Journal, 2019, 877, 62.	4.5	22
34	Colloquium: Physical constraints for the evolution of life on exoplanets. Reviews of Modern Physics, 2019, 91, .	45.6	39
35	Role of stellar physics in regulating the critical steps for life. International Journal of Astrobiology, 2019, 18, 527-546.	1.6	16
36	Revisiting the Biological Ramifications of Variations in Earthâ€™s Magnetic Field. Astrophysical Journal Letters, 2019, 874, L28.	8.3	8

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37	Photosynthesis on habitable planets around low-mass stars. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5924-5928.	4.4	24
38	Relative Likelihood of Success in the Search for Primitive versus Intelligent Extraterrestrial Life. Astrobiology, 2019, 19, 28-39.	3.0	30
39	Dependence of Biological Activity on the Surface Water Fraction of Planets. Astronomical Journal, 2019, 157, 25.	4.7	23
40	Subsurface exolife. International Journal of Astrobiology, 2019, 18, 112-141.	1.6	33
41	Black hole Brownian motion in a rotating environment. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1719-1735.	4.4	5
42	Magnetohydrodynamic Turbulence in the Plasmoid-mediated Regime. Astrophysical Journal, 2018, 854, 103.	4.5	39
43	A maximum entropy principle for inferring the distribution of 3D plasmoids. Physics of Plasmas, 2018, 25, .	1.9	9
44	The Propitious Role of Solar Energetic Particles in the Origin of Life. Astrophysical Journal, 2018, 853, 10.	4.5	29
45	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
46	Physical constraints on the likelihood of life on exoplanets. International Journal of Astrobiology, 2018, 17, 116-126.	1.6	40
47	Galactic Panspermia. Astrophysical Journal Letters, 2018, 868, L12.	8.3	40
48	Is life most likely around Sun-like stars?. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	25
49	Implications of Captured Interstellar Objects for Panspermia and Extraterrestrial Life. Astronomical Journal, 2018, 156, 193.	4.7	25
50	Is Extraterrestrial Life Suppressed on Subsurface Ocean Worlds due to the Paucity of Bioessential Elements?. Astronomical Journal, 2018, 156, 151.	4.7	29
51	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. Astrophysical Journal Letters, 2018, 859, L14.	8.3	51
52	Relativistic-amplitude electromagnetic wavesâ€"Beating the â€œmagneticâ€•barrier. Physics of Plasmas, 2018, 25, 072112.	1.9	3
53	Implications of Tides for Life on Exoplanets. Astrobiology, 2018, 18, 967-982.	3.0	21
54	Optimal Target Stars in the Search for Life. Astrophysical Journal Letters, 2018, 857, L17.	8.3	11

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55	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
56	Fast Radio Bursts from Extragalactic Light Sails. Astrophysical Journal Letters, 2017, 837, L23.	8.3	43
57	Natural and artificial spectral edges in exoplanets. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 470, L82-L86.	3.3	27
58	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
59	Is Proxima Centauri b Habitable? A Study of Atmospheric Loss. Astrophysical Journal Letters, 2017, 837, L26.	8.3	143
60	Risks for Life on Habitable Planets from Superflares of Their Host Stars. Astrophysical Journal, 2017, 848, 41.	4.5	59
61	The Dehydration of Water Worlds via Atmospheric Losses. Astrophysical Journal Letters, 2017, 847, L4.	8.3	64
62	Reduced Diversity of Life around Proxima Centauri and TRAPPIST-1. Astrophysical Journal Letters, 2017, 846, L21.	8.3	23
63	Plasmoid Instability in Forming Current Sheets. Astrophysical Journal, 2017, 850, 142.	4.5	58
64	On the structure and statistical theory of turbulence of extended magnetohydrodynamics. New Journal of Physics, 2017, 19, 015007.	2.9	11
65	HALL CURRENT EFFECTS IN MEAN-FIELD DYNAMO THEORY. Astrophysical Journal, 2016, 829, 51.	4.5	12
66	EXTENDED MHD TURBULENCE AND ITS APPLICATIONS TO THE SOLAR WIND. Astrophysical Journal, 2016, 829, 87.	4.5	22
67	Derivation of the Hall and extended magnetohydrodynamics brackets. Physics of Plasmas, 2016, 23, .	1.9	22
68	Multi-region relaxed Hall magnetohydrodynamics with flow. Physics of Plasmas, 2016, 23, 082103.	1.9	8
69	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
70	Interstellar Travel and Galactic Colonization: Insights from Percolation Theory and the Yule Process. Astrobiology, 2016, 16, 418-426.	3.0	18
71	A heuristic model for MRI turbulent stresses in Hall MHD. Monthly Notices of the Royal Astronomical Society, 2016, 460, 478-488.	4.4	9
72	Analytical approaches to modelling panspermia â€“ beyond the mean-field paradigm. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2792-2803.	4.4	13

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73	Multi-fluid systemsâ€”Multi-Beltrami relaxed states and their implications. Physics of Plasmas, 2015, 22, .	1.9	42
74	Dissipative effects in magnetohydrodynamical models with intrinsic magnetization. Communications in Nonlinear Science and Numerical Simulation, 2015, 28, 223-231.	3.3	5
75	Modelling astrophysical outflows via the unified dynamoâ€“reverse dynamo mechanism. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 449, L36-L40.	3.3	30
76	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
77	Analytical solutions for weak black hole kicks. Astrophysics and Space Science, 2014, 354, 561-570.	1.4	2
78	The double-power approach to spherically symmetric astrophysical systems. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2636-2664.	4.4	7
79	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
80	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