Abraham Loeb

List of Publications by Year
in descending order

619 papers	34,267 citations	2802 94 h-index	6654 156 g-index
625 all docs	625 docs citations	625 times ranked	13552 citing authors

#	Article	IF	Citations
1	Measuring the Expansion or Contraction of Galaxies. Research Notes of the AAS, 2022, 6, 26.	0.7	1
2	A Hot Subdwarf Model for the 18.18 minutes Pulsar GLEAM-X. Research Notes of the AAS, 2022, 6, 27.	0.7	8
3	Observational signatures of sub-relativistic meteoroids. Advances in Space Research, 2022, , .	2.6	0
4	Signatures of population III supernovae at Cosmic Dawn: the case of GN-z11-flash. General Relativity and Gravitation, 2022, 54, 1.	2.0	4
5	Gravitational Redshift for Wide Binaries in Gaia eDR3. Research Notes of the AAS, 2022, 6, 55.	0.7	5
6	Time Evolution of the CMB Quadrupole. Research Notes of the AAS, 2022, 6, 44.	0.7	1
7	Are the newly-discovered z âˆ¼ 13 drop-out sources starburst galaxies or quasars?. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 514, L6-L10.	3.3	14
8	Spurious Radial Migration from Relativistic Effects in the Milky Way Disk. Research Notes of the AAS, 2022, 6, 72.	0.7	0
9	Limiting Flux versus Redshift as a Flag of New Physics. Research Notes of the AAS, 2022, 6, 73.	0.7	0
10	Effective Self-interaction of Dark Matter from Gravitational Scattering. Astrophysical Journal Letters, 2022, 929, L24.	8.3	2
11	New Constraints on the Composition and Initial Speed of CNEOS 2014-01-08. Research Notes of the AAS, 2022, 6, 81.	0.7	3
12	A Statistical Detection of Wide Binary Systems in the Ultrafaint Dwarf Galaxy Reticulum II. Astrophysical Journal, 2022, 930, 54.	4.5	2
13	Eccentricity evolution in gaseous dynamical friction. Monthly Notices of the Royal Astronomical Society, 2022, 513, 5465-5473.	4.4	8
14	Intergalactic Travel with MOND Rockets. Research Notes of the AAS, 2022, 6, 101.	0.7	1
15	Galactic Kites. Research Notes of the AAS, 2022, 6, 104.	0.7	1
16	Detecting the Memory Effect from a Massive Black Hole Merger at the Galactic Center through Lunar Ranging. Research Notes of the AAS, 2022, 6, 98.	0.7	0
17	Implication of Spin Constraints by the Event Horizon Telescope on Stellar Orbits in the Galactic Center. Astrophysical Journal Letters, 2022, 932, L17.	8.3	15
18	Where to Find Overmassive Brown Dwarfs: New Benchmark Systems for Binary Evolution. Astrophysical Journal, 2022, 932, 91.	4.5	1

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19	Quantum Tunneling of Fuzzy Dark Matter out of Satellite Galaxies. Research Notes of the AAS, 2022, 6, 120.	0.7	2
20	Reply to: The breakup of a long-period comet is not a likely match to the Chicxulub impactor. Scientific Reports, 2022, 12, .	3.3	0
21	Lensing in the darkness: a Bayesian analysis of 22 Chandra sources at z â‰³ 6 shows no evidence of lensing. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2855-2863.	4.4	1
22	Merger Rates of Intermediate-mass Black Hole Binaries in Nuclear Star Clusters. Astrophysical Journal, 2022, 933, 170.	4.5	13
23	Halo Meteors. New Astronomy, 2021, 84, 101545.	1.8	1
24	Repeated impact-driven plume formation on Enceladus over megayear timescales. Icarus, 2021, 357, 114281.	2.5	2
25	The Observed Rate of Binary Black Hole Mergers can be Entirely Explained by Globular Clusters. Research Notes of the AAS, 2021, 5, 19.	0.7	31
26	Breakup of a long-period comet as the origin of the dinosaur extinction. Scientific Reports, 2021, 11, 3803.	3.3	11
27	Detectability of gravitational waves from a population of inspiralling black holes in Milky Way-mass galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3932-3941.	4.4	6
28	Eppur Ã¨ piatto? The Cosmic Chronometers Take on Spatial Curvature and Cosmic Concordance. Astrophysical Journal, 2021, 908, 84.	4.5	112
29	Tidal dissipation impact on the eccentric onset of common envelope phases in massive binary star systems. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5569-5582.	4.4	12
30	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
31	Constraining neutron star radii in black holeâ€“neutron star mergers from their electromagnetic counterparts. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2861-2865.	4.4	7
32	Physical Constraints on Motility with Applications to Possible Life on Mars and Enceladus. Planetary Science Journal, 2021, 2, 101.	3.6	2
33	Properties of ultralight bosons from heavy quasar spins via superradiance. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 007.	5.4	22
34	Measuring the Mass and Concentration of Dark Matter Halos from the Velocity Dispersion Profile of their Stars. Astrophysical Journal, 2021, 912, 114.	4.5	4
35	Morphological Types of DM Halos in Milky Way-like Galaxies in the TNG50 Simulation: Simple, Twisted, or Stretched. Astrophysical Journal, 2021, 913, 36.	4.5	15
36	Gravitational-wave Lunar Observatory for Cosmology. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 044.	5.4	19

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37	Explaining Neptune's Eccentricity. Research Notes of the AAS, 2021, 5, 145.	0.7	0
38	The Challenge to MOND from Ultra-faint Dwarf Galaxies. Astrophysical Journal Letters, 2021, 914, L37.	8.3	5
39	Thermal equilibrium of an ideal gas in a free-floating box. American Journal of Physics, 2021, 89, 789-792.	0.7	0
40	Interstellar objects outnumber Solar system objects in the Oort cloud. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 507, L16-L18.	3.3	11
41	Finely Tuned Models Sacrifice Explanatory Depth. Foundations of Physics, 2021, 51, 1.	1.3	2
42	Impact of Natal Kicks on Merger Rates and Spinâ€“Orbit Misalignments of Black Holeâ€“Neutron Star Mergers. Astrophysical Journal Letters, 2021, 918, L38.	8.3	18
43	Using gravitational wave parallax to measure the Hubble parameter with pulsar timing arrays. Physical Review D, 2021, 104, .	4.7	8
44	Intelligent responses to our technological signals will not arrive in fewer than three millennia. Acta Astronautica, 2021, 189, 349-351.	3.2	1
45	Implications of recoil kicks for black hole mergers from LIGO/Virgo catalogs. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3879-3884.	4.4	11
46	The search for the farthest quasar: consequences for black hole growth and seed models. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1885-1891.	4.4	20
47	The mass budget necessary to explain â€˜Oumuamua as a nitrogen iceberg. New Astronomy, 2021, 92, 101730.	1.8	8
48	A Turbulent Heliosheath Driven by the Rayleighâ€“Taylor Instability. Astrophysical Journal, 2021, 922, 181.	4.5	21
49	Positron Effects on Polarized Images and Spectra from Jet and Accretion Flow Models of M87* and Sgr A*. Astrophysical Journal, 2021, 923, 272.	4.5	13
50	Photosynthesis on exoplanets and exomoons from reflected light. International Journal of Astrobiology, 2020, 19, 210-219.	1.6	10
51	Formation and Merging of Mass Gap Black Holes in Gravitational-wave Merger Events from Wide Hierarchical Quadruple Systems. Astrophysical Journal Letters, 2020, 888, L3.	8.3	39
52	Electric sails are potentially more effective than light sails near most stars. Acta Astronautica, 2020, 168, 146-154.	3.2	9
53	A real-time search for interstellar impacts on the moon. Acta Astronautica, 2020, 173, 53-55.	3.2	4
54	Searching for Black Holes in the Outer Solar System with LSST. Astrophysical Journal Letters, 2020, 898, L4.	8.3	6

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55	Probingintermediate-mass black holes in M87 through multiwavelength gravitational wave observations. Monthly Notices of the Royal Astronomical Society, 2020, 495, 536-543.	4.4	10
56	New empirical constraints on the cosmological evolution of gas and stars in galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1124-1131.	4.4	11
57	On Spin dependence of the Fundamental Plane of black hole activity. Monthly Notices of the Royal Astronomical Society, 2020, 495, 278-284.	4.4	7
58	Propulsion of Spacecraft to Relativistic Speeds Using Natural Astrophysical Sources. Astrophysical Journal, 2020, 894, 36.	4.5	23
59	Can Planet Nine Be Detected Gravitationally by a Subrelativistic Spacecraft?. Astrophysical Journal Letters, 2020, 895, L35.	8.3	3
60	Explosions Driven by the Coalescence of a Compact Object with the Core of a Massive-star Companion inside a Common Envelope: Circumstellar Properties, Light Curves, and Population Statistics. Astrophysical Journal, 2020, 892, 13.	4.5	57
61	Separating Accretion and Mergers in the Cosmic Growth of Black Holes with X-Ray and Gravitational-wave Observations. Astrophysical Journal, 2020, 895, 95.	4.5	29
62	Merging Black Holes in the Low-mass and High-mass Gaps from 2Â+Â2 Quadruple Systems. Astrophysical Journal Letters, 2020, 895, L15.	8.3	55
63	Impacts of Dust Grains Accelerated by Supernovae on the Moon. Astrophysical Journal Letters, 2020, 895, L42.	8.3	3
64	Determining the Composition of Relativistic Jets from Polarization Maps. Astrophysical Journal, 2020, 896, 30.	4.5	16
65	A small and round heliosphere suggested by magnetohydrodynamic modelling of pick-up ions. Nature Astronomy, 2020, 4, 675-683.	10.1	50
66	Periodic Fast Radio Bursts from Young Neutron Stars. Astrophysical Journal, 2020, 890, 162.	4.5	9
67	What's in a name: the etymology of astrobiology. International Journal of Astrobiology, 2020, 19, 379-385.	1.6	4
68	Gravitational-wave Captures by Intermediate-mass Black Holes in Galactic Nuclei. Astrophysical Journal, 2020, 897, 46.	4.5	18
69	Pre-common-envelope Mass Loss from Coalescing Binary Systems. Astrophysical Journal, 2020, 895, 29.	4.5	32
70	Reality or Mirage? Observational Test and Implications for the Claimed Extremely Magnified Quasar at zÂ=Â6.3. Astrophysical Journal, 2020, 889, 52.	4.5	10
71	Observational signatures of the black hole mass distribution in the galactic center. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 021-021.	5.4	13
72	Prospects for Life on Temperate Planets around Brown Dwarfs. Astrophysical Journal, 2020, 888, 102.	4.5	6

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73	Upper Limit on the Dissipation of Gravitational Waves in Gravitationally Bound Systems. Astrophysical Journal Letters, 2020, 890, L16.	8.3	5
74	Exporting terrestrial life out of the Solar System with gravitational slingshots of Earthgrazing bodies. International Journal of Astrobiology, 2020, 19, 260-263.	1.6	2
75	On the Habitable Lifetime of Terrestrial Worlds with High Radionuclide Abundances. Astrophysical Journal Letters, 2020, 889, L20.	8.3	7
76	Repeated gravitational lensing of gravitational waves in hierarchical black hole triples. Physical Review D, 2020, 101, .	4.7	23
77	Possible Transfer of Life by Earth-Grazing Objects to Exoplanetary Systems. Life, 2020, 10, 44.	2.4	3
78	Electromagnetic signals from the decay of free neutrons in the first hours of neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1753-1760.	4.4	14
79	Searching for Exotic Cores with Binary Neutron Star Inspirals. Astrophysical Journal Letters, 2020, 893, L4.	8.3	17
80	Calibrating the binary black hole population in nuclear star clusters through tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4307-4318.	4.4	10
81	Runaway Coalescence of Pre-common-envelope Stellar Binaries. Astrophysical Journal, 2020, 893, 106.	4.5	19
82	Detecting Black Hole Occultations by Stars with Space Interferometric Telescopes. Astrophysical Journal, 2020, 899, 8.	4.5	1
83	Constraining the Delay Time Distribution of Compact Binary Objects from the Stochastic Gravitational-wave Background Searches. Astrophysical Journal, 2020, 901, 137.	4.5	8
84	Constraints on the Abundance of 0.01 c Stellar Engines in the Milky Way. Astrophysical Journal, 2020, 905, 175.	4.5	2
85	Global Stellar Budget for LIGO Black Holes. Astrophysical Journal Letters, 2020, 889, L35.	8.3	3
86	Constraints on Aquatic Photosynthesis for Terrestrial Planets around Other Stars. Astrophysical Journal Letters, 2020, 889, L15.	8.3	7
87	Detecting Interstellar Objects through Stellar Occultations. Astrophysical Journal Letters, 2020, 891, L3.	8.3	3
88	The Nearest Discovered Black Hole Is Likely Not in a Triple Configuration. Astrophysical Journal Letters, 2020, 897, L29.	8.3	7
89	Formation of Mass Gap Objects in Highly Asymmetric Mergers. Astrophysical Journal Letters, 2020, 899, L15.	8.3	31
90	Destruction of Molecular Hydrogen Ice and Implications for 1I/2017 U1 (â€˜Oumuamua). Astrophysical Journal Letters, 2020, 899, L23.	8.3	24

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91	The Case for an Early Solar Binary Companion. Astrophysical Journal Letters, 2020, 899, L24.	8.3	7
92	Potential for Liquid Water Biochemistry Deep under the Surfaces of the Moon, Mars, and beyond. Astrophysical Journal Letters, 2020, 901, L11.	8.3	8
93	An Upper Limit on the Spin of SgrA* Based on Stellar Orbits in Its Vicinity. Astrophysical Journal Letters, 2020, 901, L32.	8.3	50
94	On the Origin of GW190521-like Events from Repeated Black Hole Mergers in Star Clusters. Astrophysical Journal Letters, 2020, 902, L26.	8.3	87
95	Observable Signatures of the Ejection Speed of Interstellar Objects from Their Birth Systems. Astrophysical Journal Letters, 2020, 903, L20.	8.3	7
96	Risks for Life on Proxima b from Sterilizing Impacts. Planetary Science Journal, 2020, 1, 86.	3.6	1
97	It is feasible to directly measure black hole masses in the first galaxies. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 032-032.	5.4	3
98	Hydrodynamic Winds from Twin-star Binaries. Astrophysical Journal, 2020, 902, 85.	4.5	12
99	FRB 121102 Bursts at a Constant Rate per Log Time. Astrophysical Journal Letters, 2020, 902, L17.	8.3	3
100	Constraining the host galaxy halos of massive black holes from LISA event rates. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 055-055.	5.4	6
101	Absence of a thick atmosphere on the terrestrial exoplanet LHSÂ3844b. Nature, 2019, 573, 87-90.	27.8	139
102	Constraining a black hole companion for M87* through imaging by the Event Horizon Telescope. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 488, L90-L93.	3.3	15
103	Brown Dwarf Atmospheres as the Potentially Most Detectable and Abundant Sites for Life. Astrophysical Journal, 2019, 883, 143.	4.5	14
104	An Upper Limit on Primordial Magnetic Fields from Ultra-faint Dwarf Galaxies. Astrophysical Journal Letters, 2019, 877, L27.	8.3	10
105	A fast radio burst in the direction of the Virgo Cluster. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1-8.	4.4	19
106	Black holeâ€“neutron star mergers from triples â€“ II. The role of metallicity and spinâ€“orbit misalignment. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4991-5001.	4.4	19
107	Colloquium: Physical constraints for the evolution of life on exoplanets. Reviews of Modern Physics, 2019, 91, .	45.6	39
108	Explaining the enhanced star formation rate of Jellyfish galaxies in galaxy clusters. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 486, L26-L30.	3.3	12

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109	Constraining the stellar mass function from the deficiency of tidal disruption flares in the nuclei of massive galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4413-4422.	4.4	8
110	Black holeâ€“neutron star mergers from triples. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4443-4450.	4.4	67
111	Nonthermal Emission from the Interaction of Magnetized Exoplanets with the Wind of Their Host Star. Astrophysical Journal Letters, 2019, 874, L23.	8.3	8
112	Turning up the Heat on â€˜Oumuamua. Astrophysical Journal Letters, 2019, 875, L23.	8.3	5
113	The relation between transverse and radial velocity distributions for observations of an isotropic velocity field. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 483, L132-L137.	3.3	2
114	Explaining the Statistical Properties of Fast Radio Bursts with Suppressed Low-frequency Emission. Astrophysical Journal, 2019, 874, 72.	4.5	12
115	Role of stellar physics in regulating the critical steps for life. International Journal of Astrobiology, 2019, 18, 527-546.	1.6	16
116	Unique Fingerprints of Alternatives to Inflation in the Primordial Power Spectrum. Physical Review Letters, 2019, 122, 121301.	7.8	27
117	Constraining sub-parsec binary supermassive black holes in quasars with multi-epoch spectroscopy â€“ III. Candidates from continued radial velocity tests. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3288-3307.	4.4	42
118	On the Existence of Brown Dwarfs More Massive than the Hydrogen Burning Limit. Astrophysical Journal, 2019, 871, 227.	4.5	17
119	Photosynthesis on habitable planets around low-mass stars. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5924-5928.	4.4	24
120	Identifying Interstellar Objects Trapped in the Solar System through Their Orbital Parameters. Astrophysical Journal Letters, 2019, 872, L10.	8.3	24
121	A dynamical origin for planets in triple star systems. Monthly Notices of the Royal Astronomical Society, 2019, 483, 648-653.	4.4	8
122	Supernovae in massive binaries and compact object mergers near supermassive black holes. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 045-045.	5.4	1
123	Finite-temperature equations of state for neutron star mergers. Physical Review D, 2019, 100, .	4.7	32
124	Detecting the orbital motion of nearby supermassive black hole binaries with Gaia. Physical Review D, 2019, 100, .	4.7	5
125	Relative Likelihood of Success in the Search for Primitive versus Intelligent Extraterrestrial Life. Astrobiology, 2019, 19, 28-39.	3.0	30
126	Astrometric detection of intermediate-mass black holes at the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3669-3677.	4.4	7

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127	Dependence of Biological Activity on the Surface Water Fraction of Planets. Astronomical Journal, 2019, 157, 25.	4.7	23
128	Most Lensed Quasars at zÂ>Â6 are Missed by Current Surveys. Astrophysical Journal Letters, 2019, 870, L12.	8.3	25
129	Shock breakouts from tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2872-2877.	4.4	12
130	Subsurface exolife. International Journal of Astrobiology, 2019, 18, 112-141.	1.6	33
131	â€˜Oumuamua's Geometry Could Be More Extreme than Previously Inferred. Research Notes of the AAS, 2019, 3, 15.	0.7	7
132	Radio Flares from Collisions of Neutron Stars with Interstellar Asteroids. Research Notes of the AAS, 2019, 3, 130.	0.7	3
133	An Argument for a Kilometer-scale Nucleus of C/2019 Q4. Research Notes of the AAS, 2019, 3, 132.	0.7	1
134	Habitable Evaporated Cores and the Occurrence of Panspermia Near the Galactic Center. Astrophysical Journal Letters, 2018, 855, L1.	8.3	23
135	Single progenitor model for GW150914 and GW170104. Physical Review D, 2018, 97, .	4.7	24
136	The Propitious Role of Solar Energetic Particles in the Origin of Life. Astrophysical Journal, 2018, 853, 10.	4.5	29
137	SMBH Seeds: Model Discrimination with High-energy Emission Based on Scaling Relation Evolution. Astrophysical Journal, 2018, 854, 4.	4.5	6
138	Formation and spatial distribution of hypervelocity stars in AGN outflows. New Astronomy, 2018, 61, 95-99.	1.8	14
139	Evolution of the Black Hole Mass Function in Star Clusters from Multiple Mergers. Astrophysical Journal Letters, 2018, 858, L8.	8.3	14
140	Physical constraints on the likelihood of life on exoplanets. International Journal of Astrobiology, 2018, 17, 116-126.	1.6	40
141	Enhanced Rates of Fast Radio Bursts from Galaxy Clusters. Astrophysical Journal, 2018, 863, 132.	4.5	18
142	Glimmering in the Dark: Modeling the Low-mass End of the M_{â€¢}â€“Ïƒ Relation and of the Quasar Luminosity Function. Astrophysical Journal Letters, 2018, 864, L6.	8.3	33
143	Finding the missing baryons with fast radio bursts and Sunyaev-Zeldovich maps. Physical Review D, 2018, 98, .	4.7	30
144	Galactic Panspermia. Astrophysical Journal Letters, 2018, 868, L12.	8.3	40

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145	Gauging fine-tuning. Physical Review D, 2018, 98, .	4.7	8
146	Could Solar Radiation Pressure Explain â€˜Oumuamuaâ€™s Peculiar Acceleration?. Astrophysical Journal Letters, 2018, 868, L1.	8.3	96
147	Detecting stellar lensing of gravitational waves with ground-based observatories. Physical Review D, 2018, 98, .	4.7	56
148	Redshift Evolution of the Black Hole Merger Rate from Globular Clusters. Astrophysical Journal Letters, 2018, 866, L5.	8.3	96
149	21-cm Fluctuations from Charged Dark Matter. Physical Review Letters, 2018, 121, 121301.	7.8	67
150	Detection strategies for the first supernovae with JWST. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2202-2213.	4.4	33
151	Is life most likely around Sun-like stars?. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	25
152	Implications of Captured Interstellar Objects for Panspermia and Extraterrestrial Life. Astronomical Journal, 2018, 156, 193.	4.7	25
153	Evaporation of planetary atmospheres due to XUV illumination by quasars. Monthly Notices of the Royal Astronomical Society, 2018, 479, 171-182.	4.4	19
154	Is Extraterrestrial Life Suppressed on Subsurface Ocean Worlds due to the Paucity of Bioessential Elements?. Astronomical Journal, 2018, 156, 151.	4.7	29
155	A small amount of mini-charged dark matter could cool the baryons in the early Universe. Nature, 2018, 557, 684-686.	27.8	203
156	Dating the Tidal Disruption of Globular Clusters with GAIAÂData on Their Stellar Streams. Astrophysical Journal Letters, 2018, 859, L13.	8.3	5
157	Self-sustaining Star Formation Fronts in Filaments during the Cosmic Dawn. Astrophysical Journal Letters, 2018, 862, L14.	8.3	1
158	Implications of Tides for Life on Exoplanets. Astrobiology, 2018, 18, 967-982.	3.0	21
159	Repeated Imaging of Massive Black Hole Binary Orbits with Millimeter Interferometry: Measuring Black Hole Masses and the Hubble Constant. Astrophysical Journal, 2018, 863, 185.	4.5	25
160	Periodic optical variability and debris accretion in white dwarfs: a test for a causal connection*. Monthly Notices of the Royal Astronomical Society, 2018, 476, 933-942.	4.4	9
161	Spinup and Disruption of Interstellar Asteroids by Mechanical Torques, and Implications for 1I/2017 U1 (â€˜Oumuamua). Astrophysical Journal, 2018, 860, 42.	4.5	16
162	Optimal Target Stars in the Search for Life. Astrophysical Journal Letters, 2018, 857, L17.	8.3	11

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163	A Model Connecting Galaxy Masses, Star Formation Rates, and Dust Temperatures across Cosmic Time. Astrophysical Journal, 2018, 854, 36.	4.5	21
164	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
165	Interferometric Measurement of Acceleration at Relativistic Speeds. Astrophysical Journal Letters, 2017, 834, L20.	8.3	10
166	DETECTING TRIPLE SYSTEMS WITH GRAVITATIONAL WAVE OBSERVATIONS. Astrophysical Journal, 2017, 834, 200.	4.5	68
167	Predicted Extension of the Sagittarius Stream to the Milky Way Virial Radius. Astrophysical Journal, 2017, 836, 92.	4.5	55
168	Stability of a Light Sail Riding on a Laser Beam. Astrophysical Journal Letters, 2017, 837, L20.	8.3	53
169	Fast Radio Bursts from Extragalactic Light Sails. Astrophysical Journal Letters, 2017, 837, L23.	8.3	43
170	The Interaction of Relativistic Spacecrafts with the Interstellar Medium. Astrophysical Journal, 2017, 837, 5.	4.5	61
171	An intermediate-mass black hole in the centre of the globular cluster 47 Tucanae. Nature, 2017, 542, 203-205.	27.8	149
172	Spectral Energy Distribution and Radio Halo of NGC 253 at Low Radio Frequencies. Astrophysical Journal, 2017, 838, 68.	4.5	23
173	Inferring the Composition of Super-Jupiter Mass Companions of Pulsars with Radio Line Spectroscopy. Astrophysical Journal, 2017, 836, 135.	4.5	31
174	Natural and artificial spectral edges in exoplanets. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 470, L82-L86.	3.3	27
175	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
176	The Detectability of Radio Auroral Emission from Proxima b. Astrophysical Journal Letters, 2017, 849, L10.	8.3	37
177	Electromagnetic Forces on a Relativistic Spacecraft in the Interstellar Medium. Astrophysical Journal, 2017, 848, 31.	4.5	19
178	Risks for Life on Habitable Planets from Superflares of Their Host Stars. Astrophysical Journal, 2017, 848, 41.	4.5	59
179	The first supermassive black holes. Astronomy and Geophysics, 2017, 58, 3.22-3.26.	0.2	25
180	Jetted tidal disruptions of stars as a flag of intermediate mass black holes at high redshifts. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4286-4299.	4.4	9

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181	A Fast Radio Burst Occurs Every Second throughout the Observable Universe. Astrophysical Journal Letters, 2017, 846, L27.	8.3	38
182	An Upper Limit on the Milky Way Mass from the Orbit of the Sagittarius Dwarf Satellite. Astrophysical Journal, 2017, 847, 42.	4.5	29
183	Reduced Diversity of Life around Proxima Centauri and TRAPPIST-1. Astrophysical Journal Letters, 2017, 846, L21.	8.3	23
184	Constraining Relativistic Generalizations of Modified Newtonian Dynamics with Gravitational Waves. Physical Review Letters, 2017, 119, 031102.	7.8	20
185	A Space-based Observational Strategy for Characterizing the First Stars and Galaxies Using the Redshifted 21 cm Global Spectrum. Astrophysical Journal, 2017, 844, 33.	4.5	33
186	Preliminary Evidence for a Virial Shock around the Coma Galaxy Cluster. Astrophysical Journal, 2017, 845, 24.	4.5	14
187	Hunting black holes with Gaia. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2611-2616.	4.4	56
188	Maximum Redshift of Gravitational Wave Merger Events. Physical Review Letters, 2017, 119, 221104.	7.8	34
189	The Resilience of Life to Astrophysical Events. Scientific Reports, 2017, 7, 5419.	3.3	29
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