

List of Publications by Year in descending order

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53
papers

1,926
citations

331670

21
h-index

302126

39
g-index

54
all docs

54
docs citations

54
times ranked

1681
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized transit detection algorithm to search for periodic transits of small planets. <i>Astronomy and Astrophysics</i> , 2019, 623, A39.	5.1	161
2	A dynamically-packed planetary system around GJ 667C with three super-Earths in its habitable zone. <i>Astronomy and Astrophysics</i> , 2013, 556, A126.	5.1	132
3	Tidal Venuses: Triggering a Climate Catastrophe via Tidal Heating. <i>Astrobiology</i> , 2013, 13, 225-250.	3.0	124
4	Superhabitable Worlds. <i>Astrobiology</i> , 2014, 14, 50-66.	3.0	122
5	Formation, Habitability, and Detection of Extrasolar Moons. <i>Astrobiology</i> , 2014, 14, 798-835.	3.0	120
6	Exomoon Habitability Constrained by Illumination and Tidal Heating. <i>Astrobiology</i> , 2013, 13, 18-46.	3.0	117
7	Watan: Comprehensive Time-series Detrending in Python. <i>Astronomical Journal</i> , 2019, 158, 143.	4.7	112
8	DETECTING EXTRASOLAR MOONS AKIN TO SOLAR SYSTEM SATELLITES WITH AN ORBITAL SAMPLING EFFECT. <i>Astrophysical Journal</i> , 2014, 787, 14.	4.5	83
9	Habitable Planets Around White and Brown Dwarfs: The Perils of a Cooling Primary. <i>Astrobiology</i> , 2013, 13, 279-291.	3.0	73
10	WATER ICE LINES AND THE FORMATION OF GIANT MOONS AROUND SUPER-JOVIAN PLANETS. <i>Astrophysical Journal</i> , 2015, 806, 181.	4.5	64
11	The Search for Extraterrestrial Intelligence in Earth's Solar Transit Zone. <i>Astrobiology</i> , 2016, 16, 259-270.	3.0	52
12	MAGNETIC SHIELDING OF EXOMOONS BEYOND THE CIRCUMPLANETARY HABITABLE EDGE. <i>Astrophysical Journal Letters</i> , 2013, 776, L33.	8.3	49
13	Deceleration of High-velocity Interstellar Photon Sails into Bound Orbits at \pm Centauri. <i>Astrophysical Journal Letters</i> , 2017, 835, L32.	8.3	49
14	Runaway greenhouse effect on exomoons due to irradiation from hot, young giant planets. <i>International Journal of Astrobiology</i> , 2015, 14, 335-343.	1.6	47
15	HOW TO DETERMINE AN EXOMOON'S SENSE OF ORBITAL MOTION. <i>Astrophysical Journal Letters</i> , 2014, 796, L1.	8.3	46
16	Optimized Trajectories to the Nearest Stars Using Lightweight High-velocity Photon Sails. <i>Astronomical Journal</i> , 2017, 154, 115.	4.7	44
17	An alternative interpretation of the exomoon candidate signal in the combined <i>Kepler</i> and <i>Hubble</i> data of Kepler-1625. <i>Astronomy and Astrophysics</i> , 2019, 624, A95.	5.1	43
18	Exomoon habitability and tidal evolution in low-mass star systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 8-25.	4.4	42

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19	MODELING THE ORBITAL SAMPLING EFFECT OF EXTRASOLAR MOONS. <i>Astrophysical Journal</i> , 2016, 820, 88.	4.5	39
20	Habitability of Extrasolar Planets and Tidal Spin Evolution. <i>Origins of Life and Evolution of Biospheres</i> , 2011, 41, 539-543.	1.9	30
21	LUMINOSITY DISCREPANCY IN THE EQUAL-MASS, PRE-MAIN-SEQUENCE ECLIPSING BINARY PAR 1802: NON-COEVALITY OR TIDAL HEATING?. <i>Astrophysical Journal</i> , 2012, 745, 58.	4.5	30
22	Revisiting the exomoon candidate signal around Kepler-1625 b. <i>Astronomy and Astrophysics</i> , 2018, 617, A49.	5.1	30
23	The nature of the giant exomoon candidate Kepler-1625 b-i. <i>Astronomy and Astrophysics</i> , 2018, 610, A39.	5.1	27
24	The effect of multiple heat sources on exomoon habitable zones. <i>Astronomy and Astrophysics</i> , 2017, 601, A91.	5.1	24
25	Predictable patterns in planetary transit timing variations and transit duration variations due to exomoons. <i>Astronomy and Astrophysics</i> , 2016, 591, A67.	5.1	21
26	Formation of hot Jupiters through disk migration and evolving stellar tides. <i>Astronomy and Astrophysics</i> , 2019, 628, A42.	5.1	18
27	Analytic solutions to the maximum and average exoplanet transit depth for common stellar limb darkening laws. <i>Astronomy and Astrophysics</i> , 2019, 623, A137.	5.1	18
28	Transit least-squares survey. <i>Astronomy and Astrophysics</i> , 2019, 627, A66.	5.1	17
29	RBS/C, XRR, and XRD Studies of Damage Buildup in Erâ€™Implanted ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800364.	1.5	17
30	In Search for a Planet Better than Earth: Top Contenders for a Superhabitable World. <i>Astrobiology</i> , 2020, 20, 1394-1404.	3.0	16
31	Transit least-squares survey. <i>Astronomy and Astrophysics</i> , 2019, 625, A31.	5.1	15
32	On the Detection of Exomoons Transiting Isolated Planetary-mass Objects. <i>Astrophysical Journal Letters</i> , 2021, 918, L25.	8.3	15
33	Relativistic generalization of the incentive trap of interstellar travel with application to Breakthrough Starshot. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 3664-3671.	4.4	14
34	Habitability Models for Astrobiology. <i>Astrobiology</i> , 2021, 21, 1017-1027.	3.0	13
35	Low-cost precursor of an interstellar mission. <i>Astronomy and Astrophysics</i> , 2020, 641, A45.	5.1	10
36	Exomoon indicators in high-precision transit light curves. <i>Astronomy and Astrophysics</i> , 2020, 638, A43.	5.1	9

#	ARTICLE	IF	CITATIONS
37	Digital color codes of stars. <i>Astronomische Nachrichten</i> , 2021, 342, 578-587.	1.2	9
38	Exploring exomoon atmospheres with an idealized general circulation model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3477-3489.	4.4	8
39	Ion Beam Modification of ZnO Epilayers: Sequential Processing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700887.	1.8	7
40	Habitability of the early Earth: liquid water under a faint young Sun facilitated by strong tidal heating due to a closer Moon. <i>Palaontologische Zeitschrift</i> , 2021, 95, 563-575.	1.6	7
41	Pandora: A fast open-source exomoon transit detection algorithm. <i>Astronomy and Astrophysics</i> , 2022, 662, A37.	5.1	7
42	Better Than Earth. <i>Scientific American</i> , 2014, 312, 32-39.	1.0	6
43	Photogravimagnetic assists of light sails: a mixed blessing for Breakthrough Starshot?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3212-3220.	4.4	6
44	Transit least-squares survey. <i>Astronomy and Astrophysics</i> , 2020, 638, A10.	5.1	6
45	Habitability is a continuous property of nature. <i>Nature Astronomy</i> , 2020, 4, 294-295.	10.1	6
46	Hot moons and cool stars. <i>EPJ Web of Conferences</i> , 2013, 47, 07002.	0.3	5
47	Detecting and Characterizing Exomoons and Exorings. , 2018, , 835-851.		4
48	A Possible Transit of a Disintegrating Exoplanet in the Nearby Multiplanet System DMPP-1. <i>Astrophysical Journal Letters</i> , 2020, 895, L17.	8.3	4
49	Constraints on the Habitability of Extrasolar Moons. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 159-164.	0.0	2
50	Radial velocity constraints on the long-period transiting planet Kepler-1625 b with CARMENES. <i>Astronomy and Astrophysics</i> , 2020, 635, A59.	5.1	2
51	Signal preservation of exomoon transits during light curve folding. <i>Astronomy and Astrophysics</i> , 2022, 657, A119.	5.1	2
52	Detecting and Characterizing Exomoons and Exorings. , 2017, , 1-17.		1
53	Extrasolare Monde â€“ schÃ¶ne neue Welten?. , 2020, , 75-95.		0