Rory Barnes

List of Publications by Year
in descending order

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26 papers	1,052 citations	516710 16 h-index	552781 26 g-index
26 all docs	26 docs citations	26 times ranked	964 citing authors

#	Article	IF	Citations
1	Tidal locking of habitable exoplanets. Celestial Mechanics and Dynamical Astronomy, 2017, 129, 509-536.	1.4	174
2	Tidal Venuses: Triggering a Climate Catastrophe via Tidal Heating. Astrobiology, 2013, 13, 225-250.	3.0	124
3	The (In)stability of Planetary Systems. Astrophysical Journal, 2004, 611, 494-516.	4.5	106
4	IDENTIFYING PLANETARY BIOSIGNATURE IMPOSTORS: SPECTRAL FEATURES OF CO AND O₄ RESULTING FROM ABIOTIC O₂/O₃ PRODUCTION. Astrophysical Journal Letters, 2016, 819, L13.	8.3	100
5	Habitable Planets Around White and Brown Dwarfs: The Perils of a Cooling Primary. Astrobiology, 2013, 13, 279-291.	3.0	73
6	The Effect of Orbital Configuration on the Possible Climates and Habitability of Kepler-62f. Astrobiology, 2016, 16, 443-464.	3.0	56
7	A Statistical Examination of the Shortâ€Term Stability of the Ï… Andromedae Planetary System. Astrophysical Journal, 2001, 550, 884-889.	4.5	53
8	Exo-Milankovitch Cycles. I. Orbits and Rotation States. Astronomical Journal, 2018, 155, 60.	4.7	50
9	A method to identify the boundary between rocky and gaseous exoplanets from tidal theory and transit durations. International Journal of Astrobiology, 2015, 14, 321-333.	1.6	31
10	Exo-Milankovitch Cycles. II. Climates of G-dwarf Planets in Dynamically Hot Systems. Astronomical Journal, 2018, 155, 266.	4.7	29
11	TRAPPIST Habitable Atmosphere Intercomparison (THAI) Workshop Report. Planetary Science Journal, 2021, 2, 106.	3.6	29
12	On the Lack of Circumbinary Planets Orbiting Isolated Binary Stars. Astrophysical Journal, 2018, 858, 86.	4.5	28
13	VPLanet: The Virtual Planet Simulator. Publications of the Astronomical Society of the Pacific, 2020, 132, 024502.	3.1	28
14	Spin-driven tidal pumping: tidally driven changes in planetary spin coupled with secular interactions between planets. Celestial Mechanics and Dynamical Astronomy, 2013, 117, 331-348.	1.4	27
15	Magma Ocean Evolution of the TRAPPIST-1 Planets. Astrobiology, 2021, 21, 1325-1349.	3.0	24
16	On the XUV Luminosity Evolution of TRAPPIST-1. Astrophysical Journal, 2020, 891, 155.	4.5	20
17	The first super-Earth detection from the high cadence and high radial velocity precision Dharma Planet Survey. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2411-2422.	4.4	18
18	Faint objects in motion: the new frontier of high precision astrometry. Experimental Astronomy, 2021, 51, 845-886.	3.7	17

#	Article	IF	Citations
19	The Contribution of M-dwarf Flares to the Thermal Escape of Potentially Habitable Planet Atmospheres. Astrophysical Journal, 2022, 928, 12.	4.5	16
20	Consequences of Tidal Dissipation in a Putative Venusian Ocean. Astrophysical Journal Letters, 2019, 876, L22.	8.3	14
21	A Coupled Analysis of Atmospheric Mass Loss and Tidal Evolution in XUV Irradiated Exoplanets: The TRAPPIST-1 Case Study. Astronomical Journal, 2020, 159, 275.	4.7	14
22	Improved Constraints for the XUV Luminosity Evolution of Trappist-1. Research Notes of the AAS, 2021, 5, 122.	0.7	5
23	Effects of Spinâ€“Orbit Resonances and Tidal Heating on the Inner Edge of the Habitable Zone. Astrophysical Journal, 2021, 921, 25.	4.5	5
24	The Ice Coverage of Earth-like Planets Orbiting FGK Stars. Planetary Science Journal, 2022, 3, 13.	3.6	5
25	The Î¼ Arae Planetary System: Radial Velocities and Astrometry. Astronomical Journal, 2022, 163, 295.	4.7	4
26	Constraints on the Habitability of Extrasolar Moons. Proceedings of the International Astronomical Union, 2012, 8, 159-164.	0.0	2