

Colin Johnstone

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,210
citations

218677

26
h-index

233421

45
g-index

56
all docs

56
docs citations

56
times ranked

1735
citing authors

#	ARTICLE	IF	CITATIONS
1	The extreme ultraviolet and X-ray Sun in Time: High-energy evolutionary tracks of a solar-like star. <i>Astronomy and Astrophysics</i> , 2015, 577, L3.	5.1	206
2	Stellar winds on the main-sequence. <i>Astronomy and Astrophysics</i> , 2015, 577, A28.	5.1	162
3	Impact of space weather on climate and habitability of terrestrial-type exoplanets. <i>International Journal of Astrobiology</i> , 2020, 19, 136-194.	1.6	125
4	THE EVOLUTION OF STELLAR ROTATION AND THE HYDROGEN ATMOSPHERES OF HABITABLE-ZONE TERRESTRIAL PLANETS. <i>Astrophysical Journal Letters</i> , 2015, 815, L12.	8.3	114
5	The active lives of stars: A complete description of the rotation and XUV evolution of F, G, K, and M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 649, A96.	5.1	92
6	Grid of upper atmosphere models for $1 \leq M < 40 M_{\oplus}$ planets: application to CoRoT-7 b and HD 219134 b,c. <i>Astronomy and Astrophysics</i> , 2018, 619, A151.	5.1	89
7	Classical T Tauri stars: magnetic fields, coronae and star-disc interactions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 3202-3220.	4.4	85
8	Overcoming the Limitations of the Energy-limited Approximation for Planet Atmospheric Escape. <i>Astrophysical Journal Letters</i> , 2018, 866, L18.	8.3	82
9	EUV-driven mass-loss of protoplanetary cores with hydrogen-dominated atmospheres: the influences of ionization and orbital distance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1300-1309.	4.4	78
10	Stellar winds on the main-sequence. <i>Astronomy and Astrophysics</i> , 2015, 577, A27.	5.1	76
11	TWO REGIMES OF INTERACTION OF A HOT JUPITER'S ESCAPING ATMOSPHERE WITH THE STELLAR WIND AND GENERATION OF ENERGIZED ATOMIC HYDROGEN CORONA. <i>Astrophysical Journal</i> , 2016, 832, 173.	4.5	67
12	The coronal temperatures of low-mass main-sequence stars. <i>Astronomy and Astrophysics</i> , 2015, 578, A129.	5.1	65
13	Stellar wind interaction and pick-up ion escape of the Kepler-11 "super-Earths". <i>Astronomy and Astrophysics</i> , 2014, 562, A116.	5.1	63
14	An overabundance of low-density Neptune-like planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1868-1879.	4.4	61
15	Magma oceans and enhanced volcanism on TRAPPIST-1 planets due to induction heating. <i>Nature Astronomy</i> , 2017, 1, 878-885.	10.1	57
16	DYNAMICAL ACCRETION OF PRIMORDIAL ATMOSPHERES AROUND PLANETS WITH MASSES BETWEEN 0.1 AND 5 M_{\oplus} IN THE HABITABLE ZONE. <i>Astrophysical Journal</i> , 2016, 825, 86.	4.5	56
17	Extreme hydrodynamic losses of Earth-like atmospheres in the habitable zones of very active stars. <i>Astronomy and Astrophysics</i> , 2019, 624, L10.	5.1	55
18	Identifying the "true" radius of the hot sub-Neptune CoRoT-24b by mass-loss modelling. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 461, L62-L66.	3.3	53

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19	Upper atmospheres of terrestrial planets: Carbon dioxide cooling and the Earth's thermospheric evolution. <i>Astronomy and Astrophysics</i> , 2018, 617, A107.	5.1	50
20	Effect of stellar wind induced magnetic fields on planetary obstacles of non-magnetized hot Jupiters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4330-4336.	4.4	44
21	Ly α Absorption at Transits of HD 209458b: A Comparative Study of Various Mechanisms Under Different Conditions. <i>Astrophysical Journal</i> , 2017, 847, 126.	4.5	40
22	SHORT-PERIOD STELLAR ACTIVITY CYCLES WITH KEPLER PHOTOMETRY. <i>Astrophysical Journal</i> , 2015, 807, 109.	4.5	36
23	Loss and Fractionation of Noble Gas Isotopes and Moderately Volatile Elements from Planetary Embryos and Early Venus, Earth and Mars. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	34
24	Hydrodynamic Escape of Water Vapor Atmospheres near Very Active Stars. <i>Astrophysical Journal</i> , 2020, 890, 79.	4.5	34
25	Close-in Sub-Neptunes Reveal the Past Rotation History of Their Host Stars: Atmospheric Evolution of Planets in the HD 3167 and K2-32 Planetary Systems. <i>Astrophysical Journal</i> , 2019, 879, 26.	4.5	33
26	Aerosol Constraints on the Atmosphere of the Hot Saturn-mass Planet WASP-49b. <i>Astrophysical Journal</i> , 2017, 849, 145.	4.5	32
27	Solar XUV and ENA-driven water loss from early Venus' steam atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4718-4732.	2.4	31
28	Young planets under extreme UV irradiation. <i>Astronomy and Astrophysics</i> , 2018, 612, A25.	5.1	29
29	Effective Induction Heating around Strongly Magnetized Stars. <i>Astrophysical Journal</i> , 2018, 858, 105.	4.5	28
30	The Kepler-11 system: evolution of the stellar high-energy emission and initial planetary atmospheric mass fractions. <i>Astronomy and Astrophysics</i> , 2019, 632, A65.	5.1	28
31	The young Sun's XUV-activity as a constraint for lower CO ₂ -limits in the Earth's Archean atmosphere. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117197.	4.4	23
32	The solar wind from a stellar perspective. <i>Astronomy and Astrophysics</i> , 2020, 635, A178.	5.1	23
33	Modelling atmospheric escape and Mg II near-ultraviolet absorption of the highly irradiated hot Jupiter WASP-12b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4208-4220.	4.4	17
34	The soft X-ray light curves of partially eclipsed stellar flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 29-38.	4.4	16
35	Water Loss from Young Planets. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	13
36	Modeling of Absorption by Heavy Minor Species for the Hot Jupiter HD 209458b. <i>Astrophysical Journal</i> , 2018, 866, 47.	4.5	13

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37	On the fast magnetic rotator regime of stellar winds. <i>Astronomy and Astrophysics</i> , 2017, 598, A24.	5.1	13
38	Colliding winds in low-mass binary star systems: wind interactions and implications for habitable planets. <i>Astronomy and Astrophysics</i> , 2015, 577, A122.	5.1	12
39	Slingshot prominence evolution for a solar-like star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1448-1453.	4.4	10
40	Evolution of the Earth's Polar Outflow From Mid-Archean to Present. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027837.	2.4	10
41	Interior heating and outgassing of Proxima Centauri b: Identifying critical parameters. <i>Astronomy and Astrophysics</i> , 2021, 651, A103.	5.1	10
42	Time-scales of stellar rotational variability and starspot diagnostics. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 473, L84-L88.	3.3	8
43	STELLAR WIND INDUCED SOFT X-RAY EMISSION FROM CLOSE-IN EXOPLANETS. <i>Astrophysical Journal Letters</i> , 2015, 799, L15.	8.3	7
44	Magnetic Fields and Winds of Planet Hosting Stars. <i>Astrophysics and Space Science Library</i> , 2015, , 37-55.	2.7	7
45	Stellar activity and planetary atmosphere evolution in tight binary star systems. <i>Astronomy and Astrophysics</i> , 2019, 626, A22.	5.1	6
46	DEEP MIXING IN STELLAR VARIABILITY: IMPROVED METHOD, STATISTICS, AND APPLICATIONS. <i>Astrophysical Journal</i> , 2016, 826, 35.	4.5	5
47	Starspot variability as an X-ray radiation proxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1224-1233.	4.4	4
48	1+1D implicit disk computations. <i>Computer Physics Communications</i> , 2020, 256, 107437.	7.5	4
49	Observability of ultraviolet Ni lines in the atmosphere of transiting Earth-like planets. <i>Astronomische Nachrichten</i> , 2020, 341, 879-886.	1.2	2
50	The Influences of Stellar Activity on Planetary Atmospheres. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 168-179.	0.0	1
51	Interaction of infalling solid bodies with primordial atmospheres of disk-embedded planets. <i>Astronomy and Astrophysics</i> , 2018, 618, A19.	5.1	1
52	Constraining Stellar Winds of Young Sun-like Stars. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 243-244.	0.0	0
53	Exoplanet host-star properties: the active environment of exoplanets. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 202-205.	0.0	0
54	Stellar activity and winds shaping the atmospheres of Earth-like planets. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 181-184.	0.0	0

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55	A Hydrodynamic Modelling of Atmospheric Escape and Absorption Line of WASP-12b. Proceedings of the International Astronomical Union, 2018, 14, 301-303.	0.0	0
56	Water Loss from Young Planets. Space Sciences Series of ISSI, 2018, , 377-395.	0.0	0