

Alexander J Mustill

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,056
citations

201674

27
h-index

189892

50
g-index

63
all docs

63
docs citations

63
times ranked

2228
citing authors

#	ARTICLE	IF	CITATIONS
1	Relentless and complex transits from a planetesimal debris disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1647-1666.	4.4	16
2	A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterized with CHEOPS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1043-1071.	4.4	30
3	Investigating the architecture and internal structure of the TOI-561 system planets with CHEOPS, HARPS-N, and TESS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 4551-4571.	4.4	17
4	Metal Pollution of the Solar White Dwarf by Solar System Small Bodies. <i>Astrophysical Journal</i> , 2022, 924, 61.	4.5	10
5	Hot Jupiters, cold kinematics. <i>Astronomy and Astrophysics</i> , 2022, 658, A199.	5.1	7
6	Disentangling the parameter space: the role of planet multiplicity in triggering dynamical instabilities on planetary systems around white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 104-115.	4.4	3
7	Effects of capturing a wide-orbit planet on planetary systems: system stability and habitable zone bombardment rates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1685-1693.	4.4	0
8	A low-eccentricity migration pathway for a 13-h-period Earth analogue in a four-planet system. <i>Nature Astronomy</i> , 2022, 6, 736-750.	10.1	9
9	HD 76920 b pinned down: A detailed analysis of the most eccentric planetary system around an evolved star. <i>Publications of the Astronomical Society of Australia</i> , 2021, 38, .	3.4	7
10	CHEOPS observations of the HD 108236 planetary system: a fifth planet, improved ephemerides, and planetary radii. <i>Astronomy and Astrophysics</i> , 2021, 646, A157.	5.1	47
11	A search for transiting planets around hot subdwarfs. <i>Astronomy and Astrophysics</i> , 2021, 650, A205.	5.1	18
12	The entry geometry and velocity of planetary debris into the Roche sphere of a white dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1148-1164.	4.4	12
13	Accretion of tidally disrupted asteroids on to white dwarfs: direct accretion versus disc processing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5671-5686.	4.4	13
14	Dynamical orbital evolution scenarios of the wide-orbit eccentric planet HR 5183b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3616-3625.	4.4	4
15	Two Intermediate-mass Transiting Brown Dwarfs from the TESS Mission. <i>Astronomical Journal</i> , 2020, 160, 53.	4.7	39
16	Encounters involving planetary systems in birth environments: the significant role of binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1212-1225.	4.4	13
17	Understanding the origin of white dwarf atmospheric pollution by dynamical simulations based on detected three-planet systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1854-1869.	4.4	21
18	Flyby encounters between two planetary systems II: exploring the interactions of diverse planetary system architectures. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1149-1165.	4.4	19

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19	Capture of satellites during planetary encounters. <i>Astronomy and Astrophysics</i> , 2020, 638, A139.	5.1	3
20	Dynamical evolution of two-planet systems and its connection with white dwarf atmospheric pollution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4091-4106.	4.4	18
21	Linking the formation and fate of exo-Kuiper belts within Solar system analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5062-5078.	4.4	12
22	Resilient habitability of nearby exoplanet systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 352-368.	4.4	6
23	Do instabilities in high-multiplicity systems explain the existence of close-in white dwarf planets?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 501, L43-L48.	3.3	21
24	Fly-by encounters between two planetary systems I: Solar system analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 1366-1376.	4.4	27
25	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	12.6	78
26	Consequences of planetary migration on the minor bodies of the early solar system. <i>Astronomy and Astrophysics</i> , 2019, 623, A169.	5.1	51
27	A planetesimal orbiting within the debris disc around a white dwarf star. <i>Science</i> , 2019, 364, 66-69.	12.6	131
28	Greening of the brown-dwarf desert. <i>Astronomy and Astrophysics</i> , 2019, 628, A64.	5.1	19
29	Circularizing Planet Nine through dynamical friction with an extended, cold planetesimal belt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4609-4616.	4.4	31
30	Unstable low-mass planetary systems as drivers of white dwarf pollution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3939-3955.	4.4	86
31	Twenty years of photometric microlensing events predicted by <i>Gaia</i> DR2. <i>Astronomy and Astrophysics</i> , 2018, 617, A135.	5.1	13
32	Fast spectrophotometry of WD J1145+017. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 703-714.	4.4	22
33	The dynamical evolution of transiting planetary systems including a realistic collision prescription. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2896-2908.	4.4	13
34	Detailed chemical compositions of the wide binary HD 80606/80607: revised stellar properties and constraints on planet formation. <i>Astronomy and Astrophysics</i> , 2018, 614, A138.	5.1	26
35	The origin of the eccentricity of the hot Jupiter in CI Tau. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 464, L114-L118.	3.3	40
36	The unstable fate of the planet orbiting the A star in the HD 131399 triple stellar system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 1499-1504.	4.4	30

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37	The Pan-Pacific Planet Search. VII. The Most Eccentric Planet Orbiting a Giant Star. <i>Astronomical Journal</i> , 2017, 154, 274.	4.7	47
38	The effects of external planets on inner systems: multiplicities, inclinations and pathways to eccentric warm Jupiters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3000-3023.	4.4	84
39	K2-111 b a short period super-Earth transiting a metal poor, evolved old star. <i>Astronomy and Astrophysics</i> , 2017, 604, A16.	5.1	36
40	Long-term stability of the HR 8799 planetary system without resonant lock. <i>Astronomy and Astrophysics</i> , 2016, 592, A147.	5.1	21
41	Is there an exoplanet in the Solar system?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 460, L109-L113.	3.3	65
42	Exocomet signatures around the A-shell star ι Leonis?. <i>Astronomy and Astrophysics</i> , 2016, 594, L1.	5.1	27
43	Full-lifetime simulations of multiple unequal-mass planets across all phases of stellar evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3942-3967.	4.4	95
44	THE DESTRUCTION OF INNER PLANETARY SYSTEMS DURING HIGH-ECCENTRICITY MIGRATION OF GAS GIANTS. <i>Astrophysical Journal</i> , 2015, 808, 14.	4.5	88
45	Capture and evolution of dust in planetary mean-motion resonances: a fast, semi-analytic method for generating resonantly trapped disc images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 684-702.	4.4	17
46	Prospects for detecting decreasing exoplanet frequency with main-sequence age using <i>PLATO</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 67-72.	4.4	26
47	Long-term evolution of three-planet systems to the post-main sequence and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 1404-1419.	4.4	124
48	WTS-2 b: a hot Jupiter orbiting near its tidal destruction radius around a K dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1470-1489.	4.4	63
49	HOT JUPITERS AND COOL STARS. <i>Astrophysical Journal</i> , 2014, 794, 3.	4.5	166
50	<i>HERSCHEL</i> 's COLD DEBRIS DISKS: BACKGROUND GALAXIES OR QUIESCENT RIMS OF PLANETARY SYSTEMS?. <i>Astrophysical Journal</i> , 2013, 772, 32.	4.5	57
51	A detailed dynamical investigation of the proposed QS Virginis planetary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 2033-2039.	4.4	70
52	Simulations of two-planet systems through all phases of stellar evolution: implications for the instability boundary and white dwarf pollution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 1686-1708.	4.4	151
53	A simple scaling for the minimum instability time-scale of two widely spaced planets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 434, L11-L15.	3.3	48
54	Main-sequence progenitor configurations of the NN Ser candidate circumbinary planetary system are dynamically unstable. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2515-2521.	4.4	62

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55	White dwarf planets. EPJ Web of Conferences, 2013, 47, 06008.	0.3	3
56	FORETELLINGS OF RAGNARÅK: WORLD-ENGULFING ASYMPTOTIC GIANTS AND THE INHERITANCE OF WHITE DWARFS. Astrophysical Journal, 2012, 761, 121.	4.5	193
57	Dependence of a planet's chaotic zone on particle eccentricity: the shape of debris disc inner edges. Monthly Notices of the Royal Astronomical Society, 2012, 419, 3074-3080.	4.4	95
58	The great escape: how exoplanets and smaller bodies desert dying stars. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2104-2123.	4.4	194
59	A general model of resonance capture in planetary systems: first- and second-order resonances. Monthly Notices of the Royal Astronomical Society, 2011, 413, 554-572.	4.4	85
60	Dynamical effects of stellar mass-loss on a Kuiper-like belt. Monthly Notices of the Royal Astronomical Society, 2011, 414, 930-939.	4.4	182
61	Hamiltonian model of capture into mean motion resonance. Proceedings of the International Astronomical Union, 2010, 6, 300-303.	0.0	1
62	Debris disc stirring by secular perturbations from giant planets. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1403-1414.	4.4	131
63	Super-Earth ingestion can explain the anomalously high metal abundances of M67. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	13