

# Mark C Wyatt

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

3,513  
citations

196777

29  
h-index

169272

56  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2459  
citing authors

#	ARTICLE	IF	CITATIONS
1	<sc>sc>: a non-parametric method for recovering the surface brightness and height profiles of edge-on debris discs. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4921-4936.	1.6	5
2	ALMA's view of the M-dwarf GSC 07396-00759's edge-on debris disc: AU Mic's coeval twin. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4752-4764.	1.6	1
3	Polarization from Aligned Dust Grains in the $\beta$ Pic Debris Disk. Astrophysical Journal, 2022, 930, 49.	1.6	4
4	A $\sim 75$ per cent occurrence rate of debris discs around F stars in the $\beta$ Pic moving group. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5390-5416.	1.6	27
5	Formation of Gaps in Self-gravitating Debris Disks by Secular Resonance in a Single-planet System. I. A Simplified Model. Astrophysical Journal, 2021, 910, 13.	1.6	21
6	SpIKeS: Precision Warm Spitzer Photometry of the Kepler Field. Astrophysical Journal, Supplement Series, 2021, 254, 11.	3.0	2
7	ALMA imaging of the M-dwarf Fomalhaut's debris disc. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4497-4510.	1.6	6
8	Discovery of an Edge-on Circumstellar Debris Disk around BD+45 $^{\circ}$ 598: A Newly Identified Member of the $\beta$ Pictoris Moving Group. Astrophysical Journal, 2021, 912, 115.	1.6	11
9	The effect of stellar multiplicity on protoplanetary discs: a near-infrared survey of the Lupus star-forming region. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2305-2315.	1.6	23
10	Carbon monoxide gas produced by a giant impact in the inner region of a young system. Nature, 2021, 598, 425-428.	13.7	8
11	Comet fragmentation as a source of the zodiacal cloud. Monthly Notices of the Royal Astronomical Society, 2021, 510, 834-857.	1.6	7
12	Extrasolar Kuiper belts. , 2020, , 351-376.		11
13	Dust size and spatial distributions in debris discs: predictions for exozodiacal dust dragged in from an exo-Kuiper belt. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1143-1165.	1.6	11
14	Evolution of the Earth's atmosphere during Late Veneer accretion. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5334-5362.	1.6	17
15	Evidence for a high mutual inclination between the cold Jupiter and transiting super Earth orbiting $\mu$ Men. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2096-2118.	1.6	42
16	Solution to the debris disc mass problem: planetesimals are born small?. Monthly Notices of the Royal Astronomical Society, 2020, 500, 718-735.	1.6	41
17	Survey of planetesimal belts with ALMA: gas detected around the Sun-like star HD 129590. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2811-2830.	1.6	20
18	Mutual inclinations between giant planets and their debris discs in HD 113337 and HD 38529. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5059-5074.	1.6	8

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19	Dust Populations in the Iconic Vega Planetary System Resolved by ALMA. <i>Astrophysical Journal</i> , 2020, 898, 146.	1.6	16
20	The REASONS Survey: Resolved Millimeter Observations of a Large Debris Disk around the Nearby F Star HD 170773. <i>Astrophysical Journal</i> , 2019, 881, 84.	1.6	15
21	A statistically significant lack of debris discs in medium separation binary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3588-3606.	1.6	29
22	The wavelength dependence of interstellar polarization in the Local Hot Bubble. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 3636-3646.	1.6	17
23	An automated search for transiting exocomets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 5587-5596.	1.6	13
24	Oort cloud asteroids: collisional evolution, the Nice Model, and the Grand Tack. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5511-5518.	1.6	9
25	The Mass of Stirring Bodies in the AU Mic Debris Disk Inferred from Resolved Vertical Structure. <i>Astrophysical Journal</i> , 2019, 875, 87.	1.6	43
26	A planetesimal orbiting within the debris disc around a white dwarf star. <i>Science</i> , 2019, 364, 66-69.	6.0	131
27	Modelling the distributions of white dwarf atmospheric pollution: a low Mg abundance for accreted planetesimals?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, , .	1.6	13
28	A circumbinary protoplanetary disk in a polar configuration. <i>Nature Astronomy</i> , 2019, 3, 230-235.	4.2	59
29	Debris Disks: Probing Planet Formation. , 2018, , 1-26.		0
30	ALMA observations of the narrow HR 4796A debris ring. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4924-4938.	1.6	38
31	Cometary impactors on the TRAPPIST-1 planets can destroy all planetary atmospheres and rebuild secondary atmospheres on planets f, g, and h. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 2649-2672.	1.6	36
32	Using warm dust to constrain unseen planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 5560-5579.	1.6	12
33	Debris Disks: Probing Planet Formation. , 2018, , 2543-2568.		7
34	The KIC 8462852 light curve from 2015.75 to 2018.18 shows a variable secular decline. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2235-2248.	1.6	9
35	Scattering of exocomets by a planet chain: exozodi levels and the delivery of cometary material to inner planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 1651-1671.	1.6	20
36	The HOSTS survey for exo-zodiacal dust: preliminary results and future prospects. , 2018, , .		6

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37	First Scattered-light Images of the Gas-rich Debris Disk around 49 Ceti. <i>Astrophysical Journal Letters</i> , 2017, 834, L12.	3.0	36
38	A Complete ALMA Map of the Fomalhaut Debris Disk. <i>Astrophysical Journal</i> , 2017, 842, 8.	1.6	89
39	Transit probabilities in secularly evolving planetary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 171-192.	1.6	36
40	Molecular Gas in Debris Disks around Young A-type Stars. <i>Astrophysical Journal</i> , 2017, 849, 123.	1.6	80
41	The Northern arc of $\hat{\mu}$ Eridani's Debris Ring as seen by ALMA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3200-3212.	1.6	68
42	The transiting dust clumps in the evolved disc of the Sun-like UXor RZ Psc. <i>Royal Society Open Science</i> , 2017, 4, 160652.	1.1	25
43	SONS: The JCMT legacy survey of debris discs in the submillimetre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 3606-3663.	1.6	106
44	Predictions for the secondary CO, C and O gas content of debris discs from the destruction of volatile-rich planetesimals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 521-550.	1.6	101
45	The SHARDDS survey: First resolved image of the HD 114082 debris disk in the Lower Centaurus Crux with SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 596, L4.	2.1	36
46	Insights into Planet Formation from Debris Disks. <i>Space Science Reviews</i> , 2016, 205, 231-265.	3.7	43
47	Two-temperature Debris Disks: Signposts for Directly Imaged Planets?. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 163-166.	0.0	0
48	Constraining the orbits of sub-stellar companions imaged over short orbital arcs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3679-3688.	1.6	31
49	EXO-ZODI MODELING FOR THE LARGE BINOCULAR TELESCOPE INTERFEROMETER. <i>Astrophysical Journal, Supplement Series</i> , 2015, 216, 23.	3.0	27
50	THE INNER DISK STRUCTURE, DISK-PLANET INTERACTIONS, AND TEMPORAL EVOLUTION IN THE $\hat{\rho}$ PICTORIS SYSTEM: A TWO-EPOCH HST/STIS CORONAGRAPHIC STUDY. <i>Astrophysical Journal</i> , 2015, 800, 136.	1.6	47
51	Double-ringed debris discs could be the work of eccentric planets: explaining the strange morphology of HD 107146. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 3330-3341.	1.6	33
52	Dancing with the stars: formation of the Fomalhaut triple system and its effect on the debris discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 142-147.	1.6	16
53	Dynamical evolution of an eccentric planet and a less massive debris disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 2541-2560.	1.6	83
54	Debris from giant impacts between planetary embryos at large orbital radii. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 3757-3777.	1.6	118

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55	RESOLVED IMAGING OF THE HR8799 DEBRIS DISK WITH HERSCHEL *. Astrophysical Journal, 2014, 780, 97.	1.6	107
56	Light from Shattered Worlds: Debris from Giant Impacts. Proceedings of the International Astronomical Union, 2013, 8, 344-345.	0.0	0
57	The Population of Debris Discs Orbiting Subgiants. Proceedings of the International Astronomical Union, 2013, 8, 328-329.	0.0	0
58	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.	1.6	95
59	The Solar system's post-main-sequence escape boundary. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2969-2981.	1.6	70
60	Debris from terrestrial planet formation: the Moon-forming collision. Monthly Notices of the Royal Astronomical Society, 2012, 425, 657-679.	1.6	123
61	The great escape: how exoplanets and smaller bodies desert dying stars. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2104-2123.	1.6	194
62	Post-Main Sequence Evolution of Debris Discs. , 2011, , .		0
63	Resolved imaging of the HD 191089 debris disc. Monthly Notices of the Royal Astronomical Society, 2011, 410, 2-12.	1.6	28
64	Hamiltonian model of capture into mean motion resonance. Proceedings of the International Astronomical Union, 2010, 6, 300-303.	0.0	1
65	The history of the Solar system's debris disc: observable properties of the Kuiper belt. Monthly Notices of the Royal Astronomical Society, 2009, 399, 385-398.	1.6	98
66	Debris disc stirring by secular perturbations from giant planets. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1403-1414.	1.6	131
67	Evolution of Debris Disks. Annual Review of Astronomy and Astrophysics, 2008, 46, 339-383.	8.1	728
68	Dynamical Simulations of HD 69830. Proceedings of the International Astronomical Union, 2008, 4, 540-543.	0.0	0
69	Mid-infrared images of $\hat{\nu}^2$ Pictoris and the possible role of planetesimal collisions in the central disk. Nature, 2005, 433, 133-136.	13.7	138
70	Orbital Evolution of Interplanetary Dust. Astronomy and Astrophysics Library, 2001, , 569-639.	0.2	49
71	Imaging [CI] around HD 131835: reinterpreting young debris discs with protoplanetary disc levels of CO gas as shielded secondary discs. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	31
72	The Role of Impacts on the Atmospheres on the Moons of Outer Giants. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	0