Philip Armitage

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/15420/publications.pdf

Version: 2024-02-01

25034 43889 9,805 146 57 91 citations g-index h-index papers 153 153 153 4977 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Secular evolution of MHD wind-driven discs: analytical solutions in the expanded α-framework. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2290-2309.	4.4	35
2	MHD disc winds can reproduce fast disc dispersal and the correlation between accretion rate and disc mass in Lupus. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 512, L74-L79.	3.3	29
3	Instability from high-order resonant chains in wide-separation massive planet systems. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2750-2757.	4.4	O
4	Lifetime of the Outer Solar System Nebula From Carbonaceous Chondrites. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	8
5	Kozai–Lidov oscillations triggered by a tilt instability of detached circumplanetary discs. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4426-4434.	4.4	3
6	Partial tidal disruption events by stellar mass black holes: Gravitational instability of stream and impact from remnant core. Monthly Notices of the Royal Astronomical Society, 2021, 503, 6005-6015.	4.4	15
7	Primordial Giant Planet Obliquity Driven by a Circumplanetary Disk. Astrophysical Journal Letters, 2021, 912, L16.	8.3	3
8	Dynamical stability of giant planets: the critical adiabatic index in the presence of a solid core. Monthly Notices of the Royal Astronomical Society, 2021, 507, 6215-6224.	4.4	1
9	Global 3D radiation hydrodynamic simulations of proto-Jupiter's convective envelope. Monthly Notices of the Royal Astronomical Society, 2021, 508, 453-474.	4.4	8
10	A Bayesian neural network predicts the dissolution of compact planetary systems. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
11	Boundary Layer Circumplanetary Accretion: How Fast Could an Unmagnetized Planet Spin Up through Its Disk?. Astrophysical Journal, 2021, 921, 54.	4.5	6
12	Predicting the long-term stability of compact multiplanet systems. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18194-18205.	7.1	53
13	Future Simulations of Tidal Disruption Events. Space Science Reviews, 2020, 216, 1.	8.1	1
14	Strongly magnetized accretion discs: structure and accretion from global magnetohydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1855-1868.	4.4	48
15	Observations of Planetary Systems. , 2020, , 1-48.		O
16	Terrestrial Planet Formation. , 2020, , 181-219.		0
17	Protoplanetary Disk Structure. , 2020, , 49-85.		O
18	Protoplanetary Disk Evolution. , 2020, , 86-140.		0

#	Article	IF	CITATIONS
19	Planetesimal Formation., 2020, , 141-180.		O
20	Giant Planet Formation., 2020,, 220-246.		0
21	Early Evolution of Planetary Systems. , 2020, , 247-300.		0
22	Simulation of a compact object with outflows moving through a gaseous background. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2327-2336.	4.4	22
23	Local Simulations of Heating Torques on a Luminous Body in an Accretion Disk. Astrophysical Journal, 2020, 902, 50.	4.5	18
24	Turbulence Regulates the Rate of Planetesimal Formation via Gravitational Collapse. Astrophysical Journal, 2020, 904, 132.	4.5	39
25	A Fast-growing Tilt Instability of Detached Circumplanetary Disks. Astrophysical Journal Letters, 2020, 898, L26.	8.3	13
26	Survivor Bias: Divergent Fates of the Solar System's Ejected versus Persisting Planetesimals. Astrophysical Journal Letters, 2020, 904, L4.	8.3	13
27	The Influence of Black Hole Binarity on Tidal Disruption Events. Space Science Reviews, 2019, 215, 1.	8.1	6
28	The Mass and Size Distribution of Planetesimals Formed by the Streaming Instability. II. The Effect of the Radial Gas Pressure Gradient. Astrophysical Journal, 2019, 883, 192.	4.5	75
29	Physical Processes in Protoplanetary Disks. Saas-Fee Advanced Course, 2019, , 1-150.	1.1	24
30	From Protoplanetary Disks to Planet Formation. Saas-Fee Advanced Course, 2019, , .	1.1	12
31	Implications of the interstellar object 11/Oumuamua for planetary dynamics and planetesimal formation. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3031-3038.	4.4	82
32	Circumbinary, not transitional: on the spiral arms, cavity, shadows, fast radial flows, streamers, and horseshoe in the HD 142527 disc. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1270-1284.	4.4	122
33	Tidal disruption by extreme mass ratio binaries and application to ASASSN-15lh. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3857-3865.	4.4	22
34	A Brief Overview of Planet Formation. , 2018, , 1-19.		1
35	Interstellar Object 'Oumuamua as an Extinct Fragment of an Ejected Cometary Planetesimal. Astrophysical Journal Letters, 2018, 856, L7.	8.3	36
36	A Brief Overview of Planet Formation., 2018,, 2185-2203.		8

#	Article	IF	CITATIONS
37	Publisher Note: Circumbinary, not transitional: On the spiral arms, cavity, shadows, fast radial flows, streamers and horseshoe in the HD142527 disc. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3169-3169.	4.4	3
38	Tidal disruption events from supermassive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3840-3864.	4.4	62
39	Evidence for Universality in the Initial Planetesimal Mass Function. Astrophysical Journal Letters, 2017, 847, L12.	8.3	118
40	A Three-dimensional View of Turbulence: Constraints on Turbulent Motions in the HD 163296 Protoplanetary Disk Using DCO ⁺ . Astrophysical Journal, 2017, 843, 150.	4.5	208
41	EXor OUTBURSTS FROM DISK AMPLIFICATION OF STELLAR MAGNETIC CYCLES. Astrophysical Journal Letters, 2016, 833, L15.	8.3	22
42	THE MASS AND SIZE DISTRIBUTION OF PLANETESIMALS FORMED BY THE STREAMING INSTABILITY. I. THE ROLE OF SELF-GRAVITY. Astrophysical Journal, 2016, 822, 55.	4.5	245
43	PROMPT PLANETESIMAL FORMATION BEYOND THE SNOW LINE. Astrophysical Journal Letters, 2016, 828, L2.	8.3	53
44	TURBULENCE, TRANSPORT, AND WAVES IN OHMIC DEAD ZONES. Astrophysical Journal, 2016, 826, 18.	4.5	28
45	Planet–disc evolution and the formation of Kozai–Lidov planets. Monthly Notices of the Royal Astronomical Society, 2016, 458, 4345-4353.	4.4	91
46	On the structure of tidally disrupted stellar debris streams. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3089-3103.	4.4	46
47	Post-periapsis pancakes: sustenance for self-gravity in tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3612-3627.	4.4	49
48	Accretion disc dynamo activity in local simulations spanning weak-to-strong net vertical magnetic flux regimes. Monthly Notices of the Royal Astronomical Society, 2016, 457, 857-874.	4.4	96
49	Strongly magnetized accretion discs require poloidal flux. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3488-3493.	4.4	26
50	Magnetically driven accretion in protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1117-1131.	4.4	138
51	ACCRETION DISK DYNAMO AS THE TRIGGER FOR X-RAY BINARY STATE TRANSITIONS. Astrophysical Journal, 2015, 809, 118.	4.5	47
52	ACCRETION KINEMATICS THROUGH THE WARPED TRANSITION DISK IN HD 142527 FROM RESOLVED CO(6–5) OBSERVATIONS. Astrophysical Journal, 2015, 811, 92.	4.5	117
53	SIGNATURES OF MRI-DRIVEN TURBULENCE IN PROTOPLANETARY DISKS: PREDICTIONS FOR ALMA OBSERVATIONS. Astrophysical Journal, 2015, 808, 180.	4.5	44
54	Distinguishing an ejected blob from alternative flare models at the Galactic Centre with GRAVITY. Monthly Notices of the Royal Astronomical Society, 2014, 441, 3477-3487.	4.4	14

#	Article	IF	Citations
55	GIANT OUTBURSTS IN Be/X-RAY BINARIES. Astrophysical Journal Letters, 2014, 790, L34.	8.3	79
56	Importance of thermal diffusion in the gravomagnetic limit cycle. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2800-2809.	4.4	6
57	Convergence of simulations of self-gravitating accretion discs – II. Sensitivity to the implementation of radiative cooling and artificial viscosity. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1593-1602.	4.4	47
58	EFFICIENCY OF PARTICLE TRAPPING IN THE OUTER REGIONS OF PROTOPLANETARY DISKS. Astrophysical Journal, 2014, 784, 15.	4.5	56
59	THE KOZAI-LIDOV MECHANISM IN HYDRODYNAMICAL DISKS. Astrophysical Journal Letters, 2014, 792, L33.	8.3	122
60	A MECHANISM FOR HYSTERESIS IN BLACK HOLE BINARY STATE TRANSITIONS. Astrophysical Journal Letters, 2014, 782, L18.	8. 3	61
61	Mini-Oort clouds: compact isotropic planetesimal clouds from planet–planet scattering. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 429, L99-L103.	3.3	37
62	The interplay between X-ray photoevaporation and planet formation. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1392-1401.	4.4	85
63	A limit on eccentricity growth from global 3D simulations of disc–planet interactions. Monthly Notices of the Royal Astronomical Society, 2013, 428, 3072-3082.	4.4	79
64	A Trap for Planet Formation. Science, 2013, 340, 1179-1180.	12.6	8
65	FORMATION OF CIRCUMBINARY PLANETS IN A DEAD ZONE. Astrophysical Journal, 2013, 773, 74.	4.5	45
66	TURBULENCE IN THE OUTER REGIONS OF PROTOPLANETARY DISKS. II. STRONG ACCRETION DRIVEN BY A VERTICAL MAGNETIC FIELD. Astrophysical Journal, 2013, 775, 73.	4.5	156
67	TWO TIMESCALE DISPERSAL OF MAGNETIZED PROTOPLANETARY DISKS. Astrophysical Journal Letters, 2013, 778, L14.	8.3	50
68	TURBULENCE IN THE OUTER REGIONS OF PROTOPLANETARY DISKS. I. WEAK ACCRETION WITH NO VERTICAL MAGNETIC FLUX. Astrophysical Journal, 2013, 764, 66.	4.5	121
69	Turbulent linewidths as a diagnostic of self-gravity in protostellar discs. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2419-2426.	4.4	13
70	Debris disks as signposts of terrestrial planet formation. Astronomy and Astrophysics, 2012, 541, A11.	5.1	73
71	Hydrodynamic outcomes of planet scattering in transitional discs. Monthly Notices of the Royal Astronomical Society, 2012, 419, 366-376.	4.4	53
72	Convergence of smoothed particle hydrodynamics simulations of self-gravitating accretion discs: sensitivity to the implementation of radiative cooling. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1640-1647.	4.4	34

#	Article	IF	CITATIONS
73	Emergent mesoscale phenomena in magnetized accretion disc turbulence. Monthly Notices of the Royal Astronomical Society, 2012, 422, 2685-2700.	4.4	142
74	Global variation of the dust-to-gas ratio in evolving protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2012, 423, 389-405.	4.4	21
75	Dynamics of Protoplanetary Disks. Annual Review of Astronomy and Astrophysics, 2011, 49, 195-236.	24.3	413
76	TURBULENT LINEWIDTHS IN PROTOPLANETARY DISKS: PREDICTIONS FROM NUMERICAL SIMULATIONS. Astrophysical Journal, 2011, 743, 17.	4. 5	35
77	Debris disks as signposts of terrestrial planet formation. Astronomy and Astrophysics, 2011, 530, A62.	5.1	130
78	Stability of self-gravitating discs under irradiation. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1356-1362.	4.4	71
79	The debris disk – terrestrial planet connection. Proceedings of the International Astronomical Union, 2010, 6, 82-88.	0.0	2
80	Black hole mergers: the first light. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2021-2035.	4.4	66
81	The role of disc self-gravity in the formation of protostars and protostellar discs. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1740-1749.	4.4	85
82	PLANET-PLANET SCATTERING IN PLANETESIMAL DISKS. II. PREDICTIONS FOR OUTER EXTRASOLAR PLANETARY SYSTEMS. Astrophysical Journal, 2010, 711, 772-795.	4.5	127
83	CONNECTIONS BETWEEN LOCAL AND GLOBAL TURBULENCE IN ACCRETION DISKS. Astrophysical Journal, 2010, 712, 1241-1247.	4.5	44
84	PARTICLE TRANSPORT IN EVOLVING PROTOPLANETARY DISKS: IMPLICATIONS FOR RESULTS FROM (i) STARDUST (i). Astrophysical Journal, 2010, 719, 1633-1653.	4.5	64
85	Massive black hole binary mergers within subparsec scale gas discs. Monthly Notices of the Royal Astronomical Society, 2009, 393, 1423-1432.	4.4	304
86	Time-dependent models of the structure and stability of self-gravitating protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2009, 396, 2228-2236.	4.4	102
87	PLANET-PLANET SCATTERING IN PLANETESIMAL DISKS. Astrophysical Journal, 2009, 699, L88-L92.	4.5	83
88	PLANET-PLANET SCATTERING LEADS TO TIGHTLY PACKED PLANETARY SYSTEMS. Astrophysical Journal, 2009, 696, L98-L101.	4.5	91
89	Protoplanetary disks and hard X-rays. Proceedings of the International Astronomical Union, 2009, 5, 744-744.	0.0	0
90	GIANT PLANET MIGRATION, DISK EVOLUTION, AND THE ORIGIN OF TRANSITIONAL DISKS. Astrophysical Journal, 2009, 704, 989-1001.	4.5	169

#	Article	IF	Citations
91	Why are there so few hot Jupiters?. Monthly Notices of the Royal Astronomical Society, 2008, 384, 1242-1248.	4.4	55
92	Quasi-stars: accreting black holes inside massive envelopes. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1649-1659.	4.4	128
93	Binary formation and mass function variations in fragmenting discs with short cooling times. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1655-1664.	4.4	43
94	Microphysical dissipation, turbulence and magnetic fields in hyper-accreting discs. Monthly Notices of the Royal Astronomical Society, 2008, 391, 922-934.	4.4	13
95	Stars in the Making. Science, 2008, 321, 1047-1048.	12.6	0
96	Interaction of the Magnetorotational Instability with Hydrodynamic Turbulence in Accretion Disks. Astrophysical Journal, 2008, 685, 406-417.	4. 5	10
97	Mean Motion Resonances from Planet-Planet Scattering. Astrophysical Journal, 2008, 687, L107-L110.	4.5	108
98	Selfâ€Gravitating Fragmentation of Eccentric Accretion Disks. Astrophysical Journal, 2008, 674, 927-935.	4. 5	50
99	Extrasolar Planet Eccentricities from Scattering in the Presence of Residual Gas Disks. Astrophysical Journal, 2008, 688, 1361-1367.	4 . 5	43
100	Extrasolar Planetary Dynamics with a Generalized Planar Laplace‣agrange Secular Theory. Astrophysical Journal, 2007, 661, 1311-1322.	4.5	28
101	Constraints on the Stellar Mass Function from Stellar Dynamics at the Galactic Center. Astrophysical Journal, 2007, 654, 907-914.	4.5	49
102	Dust dynamics during protoplanetary disc clearing. Monthly Notices of the Royal Astronomical Society, 2007, 375, 500-512.	4.4	208
103	Vertical structure of hyper-accreting disks and consequences for gamma-ray burst outflows. Astrophysics and Space Science, 2007, 311, 185-190.	1.4	7
104	Massive Planet Migration: Theoretical Predictions and Comparison with Observations. Astrophysical Journal, 2007, 665, 1381-1390.	4. 5	105
105	The Stellar Mass-Accretion Rate Relation in T Tauri Stars and Brown Dwarfs. Astrophysical Journal, 2006, 639, L83-L86.	4.5	70
106	Predictions for the Correlation between Giant and Terrestrial Extrasolar Planets in Dynamically Evolved Systems. Astrophysical Journal, 2006, 645, 1509-1515.	4.5	56
107	Dust filtration at gap edges: implications for the spectral energy distributions of discs with embedded planets. Monthly Notices of the Royal Astronomical Society, 2006, 373, 1619-1626.	4.4	258
108	The Influence of Massive Planet Scattering on Nascent Terrestrial Planets. Astrophysical Journal, 2005, 620, L111-L114.	4. 5	56

#	Article	IF	Citations
109	Eccentricity of Supermassive Black Hole Binaries Coalescing from Gasâ€rich Mergers. Astrophysical Journal, 2005, 634, 921-927.	4.5	154
110	Quantifying Orbital Migration from Exoplanet Statistics and Host Metallicities. Astrophysical Journal, 2005, 630, 1107-1113.	4.5	34
111	Outward migration of extrasolar planets to large orbital radii. Monthly Notices of the Royal Astronomical Society, 2004, 347, 613-624.	4.4	135
112	Accelerated planetesimal growth in self-gravitating protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2004, 355, 543-552.	4.4	193
113	The dynamics of two massive planets on inclined orbits. Icarus, 2004, 172, 349-371.	2.5	79
114	Astrometric signatures of self-gravitating protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2003, 338, 227-232.	4.4	41
115	The effect of cooling on the global stability of self-gravitating protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2003, 339, 1025-1030.	4.4	235
116	The variability of accretion on to Schwarzschild black holes from turbulent magnetized discs. Monthly Notices of the Royal Astronomical Society, 2003, 341, 1041-1050.	4.4	93
117	Constraints on a planetary origin for the gap in the protoplanetary disc of GM Aurigae. Monthly Notices of the Royal Astronomical Society, 2003, 342, 79-85.	4.4	157
118	Dispersion in the lifetime and accretion rate of T Tauri discs. Monthly Notices of the Royal Astronomical Society, 2003, 342, 1139-1146.	4.4	105
119	The spectroscopic signature of hot Jupiters in FU Orionis objects. Monthly Notices of the Royal Astronomical Society, 2003, 345, 691-695.	4.4	9
120	Substellar companions and isolated planetary-mass objects from protostellar disc fragmentation. Monthly Notices of the Royal Astronomical Society, 2003, 346, L36-L40.	4.4	87
121	On the Formation Timescale and Core Masses of Gas Giant Planets. Astrophysical Journal, 2003, 598, L55-L58.	4.5	108
122	Axisymmetric Magnetohydrodynamic Simulations of the Collapsar Model for Gamma-Ray Bursts. Astrophysical Journal, 2003, 599, L5-L8.	4.5	127
123	Accretion during the Merger of Supermassive Black Holes. Astrophysical Journal, 2002, 567, L9-L12.	4.5	293
124	Magnetic activity in accretion disc boundary layers. Monthly Notices of the Royal Astronomical Society, 2002, 330, 895-900.	4.4	47
125	The brown dwarf desert as a consequence of orbital migration. Monthly Notices of the Royal Astronomical Society, 2002, 330, L11-L14.	4.4	87
126	Predictions for the frequency and orbital radii of massive extrasolar planets. Monthly Notices of the Royal Astronomical Society, 2002, 334, 248-256.	4.4	124

#	Article	IF	CITATIONS
127	Episodic accretion in magnetically layered protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2001, 324, 705-711.	4.4	293
128	Simulations of Accretion Flows Crossing the Last Stable Orbit. Astrophysical Journal, 2001, 548, 868-875.	4.5	57
129	A Variable Efficiency for Thin-Disk Black Hole Accretion. Astrophysical Journal, 2001, 561, L81-L84.	4.5	33
130	Black Hole Formation via Hypercritical Accretion during Commonâ€Envelope Evolution. Astrophysical Journal, 2000, 532, 540-547.	4.5	78
131	The effects of tidally induced disc structure on white dwarf accretion in intermediate polars. Monthly Notices of the Royal Astronomical Society, 1999, 302, 189-196.	4.4	12
132	Accretion disc evolution in single and binary T Tauri stars. Monthly Notices of the Royal Astronomical Society, 1999, 304, 425-433.	4.4	49
133	Warped discs and the directional stability of jets in active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 1999, 309, 961-968.	4.4	34
134	Early planet formation as a trigger for further planet formation. Nature, 1999, 402, 633-635.	27.8	58
135	The Blandford-Znajek Mechanism and the Emission from Isolated Accreting Black Holes. Astrophysical Journal, 1999, 523, L7-L10.	4.5	55
136	Lenseâ€Thirring Precession of Accretion Disks around Compact Objects. Astrophysical Journal, 1999, 525, 909-914.	4.5	26
137	Simulations of spiral structure in the accretion disc of IP Pegasi during outburst. Monthly Notices of the Royal Astronomical Society, 1998, 297, L81-L85.	4.4	16
138	Tilted accretion discs in cataclysmic variables: tidal instabilities and superhumps. Monthly Notices of the Royal Astronomical Society, 1998, 300, 561-566.	4.4	32
139	Turbulence and Angular Momentum Transport in a Global Accretion Disk Simulation. Astrophysical Journal, 1998, 501, L189-L192.	4.5	150
140	Hydrodynamics of the Streamâ€Disk Impact in Interacting Binaries. Astrophysical Journal, 1998, 493, 898-908.	4.5	83
141	The ejection of T Tauri stars from molecular clouds and the fate of circumstellar discs. Monthly Notices of the Royal Astronomical Society, 1997, 285, 540-546.	4.4	33
142	Magnetospheric Accretion in T Tauri Stars. International Astronomical Union Colloquium, 1997, 163, 515-519.	0.1	0
143	Radiation-induced Warping of Protostellar Accretion Disks. Astrophysical Journal, 1997, 488, L47-L50.	4.5	27
144	Magnetic braking of T Tauri stars. Monthly Notices of the Royal Astronomical Society, 1996, 280, 458-468.	4.4	123

#	Article	IF	CITATION
145	Dynamo-driven Accretion Disks and Dwarf Nova Eruptions. Astrophysical Journal, 1996, 457, 332.	4.5	12
146	Magnetically modulated accretion in T Tauri stars. Monthly Notices of the Royal Astronomical Society, 1995, 273, 639-642.	4.4	23