## <scp>Phantom</scp>: A Smoothed Particle Hydrodyna Code for Astrophysics

Publications of the Astronomical Society of Australia 35, DOI: 10.1017/pasa.2018.25

**Citation Report** 

#	Article	IF	CITATIONS
1	ALARIC: An algorithm for constructing arbitrarily complex initial density distributions with low particle noise for SPH/SPMHD applications. Computer Physics Communications, 2018, 224, 186-197.	3.0	8
2	The Role of Magnetic Fields in the Formation of Protostellar Discs. Frontiers in Astronomy and Space Sciences, 2018, 5, .	1.1	56
3	Impact of the Hall effect in star formation and the issue of angular momentum conservation. Astronomy and Astrophysics, 2018, 619, A37.	2.1	26
4	Two-fluid dusty gas in smoothed particle hydrodynamics: Fast and implicit algorithm for stiff linear drag. Astronomy and Computing, 2018, 25, 25-37.	0.8	20
5	Type I Outbursts in Low-eccentricity Be/X-Ray Binaries. Astrophysical Journal Letters, 2019, 881, L32.	3.0	8
6	Numerical Methods for Simulating Star Formation. Frontiers in Astronomy and Space Sciences, 2019, 6,	1.1	16
7	Kinematic detection of a planet carving a gap in a protoplanetary disk. Nature Astronomy, 2019, 3, 1109-1114.	4.2	124
8	Ambipolar diffusion and the molecular abundances in pre-stellar cores. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2357-2364.	1.6	12
9	The Influence of Black Hole Binarity on Tidal Disruption Events. Space Science Reviews, 2019, 215, 1.	3.7	6
10	Ultra-deep tidal disruption events: prompt self-intersections and observables. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5267-5278.	1.6	11
11	There is no magnetic braking catastrophe: low-mass star cluster and protostellar disc formation with non-ideal magnetohydrodynamics. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1719-1741.	1.6	54
12	Properties of the post-inspiral common envelope ejecta – I. Dynamical and thermal evolution. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3334-3350.	1.6	25
13	Speaking with one voice: simulations and observations discuss the common envelope $\hat{I}\pm$ parameter. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2550-2566.	1.6	35
14	Signatures of an eccentric disc cavity: Dust and gas in IRS 48. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2579-2587.	1.6	37
15	Polar alignment of a protoplanetary disc around an eccentric binary – III. Effect of disc mass. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1332-1349.	1.6	26
16	Density Conversion between 1D and 3D Stellar Models with <sup>1D</sup> MESA2HYDRO <sup>3D</sup> . Astrophysical Journal, 2019, 882, 63.	1.6	6
17	On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. Astrophysical Journal Letters, 2019, 882, L26.	3.0	43
18	Dusty clumps in circumbinary discs. Monthly Notices of the Royal Astronomical Society, 2019, 489, 2204-2215.	1.6	20

#	Article	IF	CITATIONS
19	General relativistic smoothed particle hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2019, 485, 819-842.	1.6	17
20	Magneto-hydrodynamical nonlinear simulations of magnetically confined plasmas using smooth particle hydrodynamics (SPH). Physics of Plasmas, 2019, 26, 012511.	0.7	3
21	Alignment of a circumbinary disc around an eccentric binary with application to KHÂ15D. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2919-2932.	1.6	31
22	A dust and gas cavity in the disc around CQ Tau revealed by ALMA. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4638-4654.	1.6	33
23	Streams collision as possible precursor of double tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1301-1316.	1.6	7
24	Asymptotically Stable Numerical Method for Multispecies Momentum Transfer: Gas and Multifluid Dust Test Suite and Implementation in FARGO3D. Astrophysical Journal, Supplement Series, 2019, 241, 25.	3.0	73
25	Smoothed particle hydrodynamics for root growth mechanics. Engineering Analysis With Boundary Elements, 2019, 105, 20-30.	2.0	6
26	The TORUS radiation transfer code. Astronomy and Computing, 2019, 27, 63-95.	0.8	37
27	Misaligned snowplough effect and the electromagnetic counterpart to black hole binary mergers. Monthly Notices of the Royal Astronomical Society, 2019, 484, 31-38.	1.6	2
28	Extending common envelope simulations from Roche lobe overflow to the nebular phase. Monthly Notices of the Royal Astronomical Society, 2019, 484, 631-647.	1.6	55
29	Flybys in protoplanetary discs: I. Gas and dust dynamics. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4114-4139.	1.6	85
30	Super-Earths in the TWÂHya disc. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L130-L135.	1.2	16
31	Tidal Disruption Events: The Role of Stellar Spin. Astrophysical Journal, 2019, 872, 163.	1.6	45
32	Accurate tracer particles of baryon dynamics in the adaptive mesh refinement code Ramses. Astronomy and Astrophysics, 2019, 621, A96.	2.1	16
33	Electromagnetic emission of white dwarf binary mergers. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 044-044.	1.9	14
34	Scattered light shadows in warped protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4951-4962.	1.6	33
35	Ring structure in the MWC 480 disk revealed by ALMA. Astronomy and Astrophysics, 2019, 622, A75.	2.1	55
36	Simulating star-forming regions in spiral galaxies with AMUSE. Proceedings of the International Astronomical Union, 2019, 14, 216-219.	0.0	1

#	Article	IF	CITATIONS
37	ALMA study of the HD 100453 AB system and the tidal interaction of the companion with the disk. Astronomy and Astrophysics, 2019, 624, A33.	2.1	31
38	A circumbinary protoplanetary disk in a polar configuration. Nature Astronomy, 2019, 3, 230-235.	4.2	59
39	Flybys in protoplanetary discs – II. Observational signatures. Monthly Notices of the Royal Astronomical Society, 2020, 491, 504-514.	1.6	51
40	Non-ideal magnetohydrodynamics versus turbulence – I. Which is the dominant process in protostellar disc formation?. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3795-3806.	1.6	19
41	The Lagrangian hydrodynamics code magma2. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4230-4255.	1.6	22
42	Planet migration, resonant locking, and accretion streams in PDSÂ70: comparing models and data. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2015-2027.	1.6	18
43	Future Simulations of Tidal Disruption Events. Space Science Reviews, 2020, 216, 1.	3.7	1
44	Non-ideal magnetohydrodynamics versus turbulence II: Which is the dominant process in stellar core formation?. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3807-3818.	1.6	15
45	Honing and proofing Astrophysical codes on the road to Exascale. Experiences from code modernization on many-core systems. Future Generation Computer Systems, 2020, 112, 93-107.	4.9	2
46	The impact of recombination energy on simulations of the common-envelope binary interaction. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5333-5349.	1.6	34
47	Dynamical effects of the ambipolar diffusion in a protoplanetary disc. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1634-1653.	1.6	1
48	Spirals, shadows, and precession in HDÂ100453 – I. The orbit of the binary. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3837-3856.	1.6	18
49	Are the spiral arms in the MWCÂ758 protoplanetary disc driven by a companion inside the cavity?. Monthly Notices of the Royal Astronomical Society, 2020, 498, 639-650.	1.6	31
50	Smoothed particle magnetohydrodynamics with the geometric density average force expression. Astronomy and Astrophysics, 2020, 638, A140.	2.1	6
51	Simulating disc formation in tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1374-1391.	1.6	64
52	FleCSPH: The next generation FleCSIble parallel computational infrastructure for smoothed particle hydrodynamics. SoftwareX, 2020, 12, 100602.	1.2	4
53	Do nuclear rings in barred galaxies form at the shear minimum of the rotation curve?. Monthly Notices of the Royal Astronomical Society, 2020, 494, 6030-6035.	1.6	13
54	Planet migration in self-gravitating discs: survival of planets. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1598-1609.	1.6	12

#	Article	IF	CITATIONS
55	Bipolar planetary nebulae from outflow collimation by common envelope evolution. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2855-2869.	1.6	36
56	On the cavity size in circumbinary discs. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2936-2947.	1.6	26
57	The observational impact of dust trapping in self-gravitating discs. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4256-4271.	1.6	11
58	Observing protoplanetary discs with the Square Kilometre Array – I. Characterizing pebble substructure caused by forming planets. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5116-5127.	1.6	11
59	Spirals, shadowsÂ& precession in HDÂ100453 – II. The hidden companion. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3857-3867.	1.6	10
60	The role of collision speed, cloud density, and turbulence in the formation of young massive clusters via cloud–cloud collisions. Monthly Notices of the Royal Astronomical Society, 2020, 499, 1099-1115.	1.6	26
61	The evolution of large cavities and disc eccentricity in circumbinary discs. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3362-3380.	1.6	40
62	Is the gap in the DS Tau disc hiding a planet?. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1913-1926.	1.6	17
63	Long-lived Dust Rings around HD 169142. Astrophysical Journal Letters, 2020, 888, L4.	3.0	24
64	A solution to the overdamping problem when simulating dust–gas mixtures with smoothed particle hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3929-3934.	1.6	13
65	Formation of the polar debris disc around 99 Herculis. Monthly Notices of the Royal Astronomical Society, 2020, 494, 487-499.	1.6	21
66	Evolution of α Centauri b's protoplanetary disc. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2436-2447.	1.6	5
67	The AREPO Public Code Release. Astrophysical Journal, Supplement Series, 2020, 248, 32.	3.0	196
68	Rocking shadows in broken circumbinary discs. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 493, L143-L147.	1.2	11
69	A general-purpose time-step criterion for simulations with gravity. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4306-4313.	1.6	11
70	Variability in Short Gamma-Ray Bursts: Gravitationally Unstable Tidal Tails. Astrophysical Journal Letters, 2020, 896, L38.	3.0	10
71	Inner Boundary Condition in Quasi-Lagrangian Simulations of Accretion Disks. Astrophysical Journal Letters, 2020, 892, L29.	3.0	15
72	Binary-induced spiral arms inside the disc cavity of ABÂAurigae. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2362-2371.	1.6	22

	C	ITATION REPORT	
#	Article	IF	Citations
73	Simulations of Tidal Disruption Events. Space Science Reviews, 2020, 216, 1.	3.7	4
74	The formation of young massive clusters by colliding flows. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 496, L1-L5.	1.2	28
75	Efficient dust ring formation in misaligned circumbinary discs. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3306-3315.	1.6	23
76	Grain growth for astrophysics with discontinuous Galerkin schemes. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4298-4316.	1.6	15
77	A momentum-conserving N-body scheme with individual time steps. New Astronomy, 2021, 85, 1014	481. 0.8	6
78	The properties of clusters, and the orientation of magnetic fields relative to filaments, in magnetohydrodynamic simulations of colliding clouds. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2285-2295.	1.6	13
79	The origin of a universal filament width in molecular clouds. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1494-1503.	1.6	9
80	Kozai–Lidov oscillations triggered by a tilt instability of detached circumplanetary discs. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4426-4434.	1.6	3
81	Simulating dust grain-radiation coupling on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1344-1354.	1.6	4
82	Sustained Kozai–Lidov Oscillations in Misaligned Circumstellar Gas Disks. Astrophysical Journal Letters, 2021, 907, L14.	3.0	14
83	Formation of Dust Filaments in the Diffuse Envelopes of Molecular Clouds. Astrophysical Journal, 2021, 908, 112.	1.6	4
84	Dynamical dust traps in misaligned circumbinary discs: analytical theory and numerical simulations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4930-4941.	1.6	8
85	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, 6005-601	1.6	15
86	Disk Tearing: Numerical Investigation of Warped Disk Instability. Astrophysical Journal, 2021, 909, 81	l. 1.6	20
87	AB Aurigae: possible evidence of planet formation through the gravitational instability. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2877-2888.	1.6	7
88	Optimal Softening for Gravitational Force Calculations in N-body Dynamics. Astrophysical Journal, 2021, 911, 83.	1.6	0
89	Investigating the role of magnetic fields in star formation using molecular line profiles. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2381-2389.	1.6	8
90	HDÂ143006: circumbinary planet or misaligned disc?. Monthly Notices of the Royal Astronomical Society, 2021, 504, 888-897.	1.6	16

#	Article	IF	CITATIONS
91	A study of cool core resiliency and entropy mixing in simulations of galaxy cluster mergers. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5409-5436.	1.6	7
92	A Coplanar Circumbinary Protoplanetary Disk in the TWA 3 Triple M Dwarf System. Astrophysical Journal, 2021, 912, 6.	1.6	21
93	Formation of eccentric gas discs from sublimating or partially disrupted asteroids orbiting white dwarfs. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 505, L21-L25.	1.2	13
94	Spiral Arms and a Massive Dust Disk with Non-Keplerian Kinematics: Possible Evidence for Gravitational Instability in the Disk of Elias 2–27. Astrophysical Journal, 2021, 914, 88.	1.6	38
95	Molecular line signatures of cloud–cloud collisions. Monthly Notices of the Royal Astronomical Society, 2021, 506, 775-780.	1.6	12
96	Smoothed particle radiation hydrodynamics: two-moment method with local Eddington tensor closure. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5784-5814.	1.6	9
97	Chemical signatures of a warped protoplanetary disc. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4821-4837.	1.6	13
98	CSA-SOM: A metaheuristic optimisation algorithm guided by machine learning and application to aerodynamic design. , 2021, , .		1
99	Simulating cosmic structure formation with the <scp>gadget</scp> -4 code. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2871-2949.	1.6	130
100	Electromagnetic Signatures from the Tidal Tail of a Black Hole—Neutron Star Merger. Astrophysical Journal, 2021, 915, 69.	1.6	19
101	Circumbinary and circumstellar discs around the eccentric binary IRAS 04158+2805 — a testbed for binary–disc interaction. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1157-1174.	1.6	14
102	Modelling of ionizing feedback with smoothed particle hydrodynamics and Monte Carlo radiative transfer on a Voronoi grid. Monthly Notices of the Royal Astronomical Society, 2021, 507, 858-878.	1.6	3
103	General isotropic micropolar fluid model in smoothed particle hydrodynamics. Physical Review E, 2021, 104, 015315.	0.8	2
104	ALMA 870 $\hat{l}$ <sup>1</sup> /4m continuum observations of HD 100546. Astronomy and Astrophysics, 2021, 651, A90.	2.1	20
105	Circumbinary disc self-gravity governing supermassive black hole binary mergers. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	13
106	The impact of non-ideal magnetohydrodynamic processes on discs, outflows, counter-rotation, and magnetic walls during the early stages of star formation. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2354-2372.	1.6	18
107	SPH modelling of wind-companion interactions in eccentric AGB binary systems. Astronomy and Astrophysics, 2021, 652, A51.	2.1	10
108	Terrestrial planet formation in a circumbinary disc around a coplanar binary. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3461-3472.	1.6	11

#	Article		CITATIONS
109	Dust growth, fragmentation, and self-induced dust traps in <scp>phantom</scp> . Monthly Notices of the Royal Astronomical Society, 2021, 507, 2318-2338.	1.6	9
110	SPH modelling of companion-perturbed AGB outflows including a new morphology classification scheme. Astronomy and Astrophysics, 2021, 653, A25.	2.1	12
111	GW Ori: circumtriple rings and planets. Monthly Notices of the Royal Astronomical Society, 2021, 508, 392-407.	1.6	12
112	PySPH: A Python-based Framework for Smoothed Particle Hydrodynamics. ACM Transactions on Mathematical Software, 2021, 47, 1-38.	1.6	25
113	A shock-capturing scheme with a novel limiter for compressible flows solved by smoothed particle hydrodynamics. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114082.	3.4	9
114	Dust traffic jams in inclined circumbinary protoplanetary discs – I. Morphology and formation theory. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2743-2757.	1.6	9
115	Shadows and asymmetries in the T Tauri disk HD 143006: evidence for a misaligned inner disk. Astronomy and Astrophysics, 2018, 619, A171.	2.1	71
116	Ongoing flyby in the young multiple system UX Tauri. Astronomy and Astrophysics, 2020, 639, L1.	2.1	31
117	On the orbital evolution of binaries with circumbinary discs. Astronomy and Astrophysics, 2020, 641, A64.	2.1	43
118	Fragmentation favoured in discs around higher mass stars. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5041-5051.	1.6	14
119	Synthetic line and continuum observations of simulated turbulent clouds: the apparent widths of filaments. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3728-3737.	1.6	10
120	A smoothed particle hydrodynamics algorithm for multigrain dust with separate sets of particles. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3806-3818.	1.6	3
121	Do we need non-ideal magnetohydrodynamic to model protostellar discs?. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5873-5891.	1.6	13
122	Plonk: Smoothed particle hydrodynamics analysis and visualization with Python. Journal of Open Source Software, 2019, 4, 1884.	2.0	7
123	Fallback Rates from Partial Tidal Disruption Events. Astrophysical Journal, 2020, 899, 36.	1.6	32
124	Predicting the Kinematic Evidence of Gravitational Instability. Astrophysical Journal, 2020, 904, 148.	1.6	25
125	GW Ori: Interactions between a Triple-star System and Its Circumtriple Disk in Action. Astrophysical Journal Letters, 2020, 895, L18.	3.0	32
126	A Fast-growing Tilt Instability of Detached Circumplanetary Disks. Astrophysical Journal Letters, 2020, 898, L26.	3.0	13

#	Article	IF	CITATIONS
127	Hiding Signatures of Gravitational Instability in Protoplanetary Disks with Planets. Astrophysical Journal Letters, 2020, 904, L18.	3.0	9
128	Investigating Protoplanetary Disk Cooling through Kinematics: Analytical GI Wiggle. Astrophysical Journal Letters, 2021, 920, L41.	3.0	8
129	The circumbinary rings of GG Carinae: indications of disc eccentricity growth in the B[e] supergiant's atomic emission lines. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1720-1735.	1.6	1
130	Formation of Polar Terrestrial Circumbinary Planets. Astrophysical Journal Letters, 2021, 920, L8.	3.0	12
131	Gas and Dust Dynamics During Planet Formation in HL Tau. , 2018, , 25-36.		0
132	Bonsai-SPH: A GPU accelerated astrophysical Smoothed Particle Hydrodynamics code. , 2020, 1, .		2
133	A Study of Hydrodynamics Based Community Codes in Astrophysics. Communications in Computer and Information Science, 2020, , 89-97.	0.4	1
134	<scp>Sphenix</scp> : smoothed particle hydrodynamics for the next generation of galaxy formation simulations. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2367-2389.	1.6	24
135	A study on tidal disruption event dynamics around an Sgr A*-like massive black hole. Astronomy and Astrophysics, 2020, 642, A111.	2.1	6
136	The effect of cooling on the accretion of circumprimary discs in merging supermassive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2836-2844.	1.6	1
137	magritte, a modern software library for 3D radiative transfer – II. Adaptive ray-tracing, mesh construction, and reduction. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5194-5204.	1.6	10
138	The formation and early evolution of embedded star clusters in spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 6155-6168.	1.6	15
139	Tidal disruption discs formed and fed by stream–stream and stream–disc interactions in global GRHD simulations. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1627-1648.	1.6	28
140	On the rise times in FU Orionis events. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 510, L37-L41.	1.2	16
141	Partial, Zombie, and Full Tidal Disruption of Stars by Supermassive Black Holes. Astrophysical Journal, 2021, 922, 168.	1.6	22
142	Nonperiodic Type I Be/X-Ray Binary Outbursts. Astrophysical Journal Letters, 2021, 922, L37.	3.0	6
143	On the Dynamics of Low-viscosity Warped Disks around Black Holes. Astrophysical Journal, 2021, 922, 243.	1.6	6
144	Estimating outflow masses and velocities in merger simulations: Impact of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>r</mml:mi> -process heating and neutrino cooling. Physical Review D, 2021, 104, .</mml:math 	1.6	19

#	Article	IF	CITATIONS
145	Conservative, density-based smoothed particle hydrodynamics with improved partition of the unity and better estimation of gradients. Astronomy and Astrophysics, 2022, 659, A175.	2.1	5
146	The Eccentric Nature of Eccentric Tidal Disruption Events. Astrophysical Journal, 2022, 924, 34.	1.6	10
147	A likely flyby of binary protostar Z CMa caught in action. Nature Astronomy, 2022, 6, 331-338.	4.2	21
148	Eccentric Dust-ring Formation in Kozai–Lidov Gas Disks. Astrophysical Journal Letters, 2022, 925, L1.	3.0	4
149	On the origin of magnetic fields in stars – II. The effect of numerical resolution. Monthly Notices of the Royal Astronomical Society, 2022, 511, 746-764.	1.6	9
150	Common envelopes in massive stars: towards the role of radiation pressure and recombination energy in ejecting red supergiant envelopes. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5462-5480.	1.6	36
151	Binary companions triggering fragmentation in self-gravitating discs. Monthly Notices of the Royal Astronomical Society, 2022, 511, 457-471.	1.6	9
152	Warping Away Gravitational Instabilities in Protoplanetary Discs. Astrophysical Journal, 2022, 925, 163.	1.6	5
153	Stars Crushed by Black Holes. II. A Physical Model of Adiabatic Compression and Shock Formation in Tidal Disruption Events. Astrophysical Journal, 2022, 926, 47.	1.6	8
154	Simulations of 60Fe entrained in ejecta from a near-Earth supernova: effects of observer motion. Monthly Notices of the Royal Astronomical Society, 2022, 512, 712-727.	1.6	8
155	Stars Crushed by Black Holes. I. On the Energy Distribution of Stellar Debris in Tidal Disruption Events. Astrophysical Journal, 2021, 923, 184.	1.6	12
156	A Hybrid Multiscale Finite Cloud Method and Finite Volume Method in Solving High Gradient Problem. International Journal of Computational Methods, 2022, 19, .	0.8	1
157	Circumbinary Disk Evolution in the Presence of an Outer Companion Star. Astrophysical Journal Letters, 2022, 927, L26.	3.0	11
158	The widths of magnetized filaments in molecular clouds. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1407-1414.	1.6	6
159	Nonlinear behaviour of warped discs around a central object with a quadrupole moment. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	4
160	Presolar grain dynamics: Creating nucleosynthetic variations through a combination of drag and viscous evolution. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5874-5894.	1.6	4
161	Characteristics of small protoplanetary disc warps in kinematic observations. Monthly Notices of the Royal Astronomical Society, 2022, 513, 487-502.	1.6	7
162	A survey of disc thickness and viscosity in circumbinary accretion: Binary evolution, variability, and disc morphology. Monthly Notices of the Royal Astronomical Society, 2022, 513, 6158-6176.	1.6	24

#	Article	IF	CITATIONS
163	The Bardeen–Petterson effect in accreting supermassive black hole binaries: disc breaking and critical obliquity. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5608-5621.	1.6	8
164	Constraining protoplanetary disc mass using the GI wiggle. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1671-1679.	1.6	9
165	Gravitational waves from tidal disruption events: an open and comprehensive catalog. Monthly Notices of the Royal Astronomical Society, 2021, 510, 992-1001.	1.6	7
166	The protoplanetary disc around HD 169142: circumstellar or circumbinary?. Monthly Notices of the Royal Astronomical Society, 2021, 510, 205-215.	1.6	6
167	Grouped star formation: converting sink particles to stars in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2657-2670.	1.6	7
168	Resolving Massive Black Hole Binary Evolution via Adaptive Particle Splitting. Astrophysical Journal Letters, 2022, 929, L13.	3.0	13
169	Mapping the Planetary Wake in HD 163296 with Kinematics. Astrophysical Journal Letters, 2022, 929, L25.	3.0	18
170	Observational bias and young massive cluster characterisation I. 2D perspective effects. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	3
171	Accretion on to a binary from a polar circumbinary disc. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1249-1257.	1.6	4
172	A massive Keplerian protostellar disk with flyby-induced spirals in the Central Molecular Zone. Nature Astronomy, 2022, 6, 837-843.	4.2	8
173	Accretion rates in hierarchical triple systems with discs. Monthly Notices of the Royal Astronomical Society, 2022, 514, 906-919.	1.6	11
174	Stripping Model for Short Gamma-Ray Bursts in Neutron Star Mergers. Particles, 2022, 5, 198-209.	0.5	8
175	A giant planet shaping the disk around the very low-mass star CIDA 1. Astronomy and Astrophysics, 2022, 665, A25.	2.1	6
176	Dispersion Analysis ofÂSmoothed Particle Hydrodynamics toÂStudy Convergence andÂNumerical Phenomena atÂCoarse Resolution. Lecture Notes in Computer Science, 2022, , 184-197.	1.0	1
177	Tidal Disruption on Stellar-mass Black Holes in Active Galactic Nuclei. Astrophysical Journal Letters, 2022, 933, L28.	3.0	13
178	Kinematic Evidence for an Embedded Planet in the IM Lupi Disk. Astrophysical Journal Letters, 2022, 934, L11.	3.0	9
179	The initial magnetic criticality of pre-stellar cores. Monthly Notices of the Royal Astronomical Society, 2022, 515, 5689-5697.	1.6	4
180	3D simulations of AGB stellar winds. Astronomy and Astrophysics, 2022, 667, A75.	2.1	4

#	Article	IF	CITATIONS
181	Fragmentation with discontinuous Galerkin schemes: non-linear fragmentation. Monthly Notices of the Royal Astronomical Society, 2022, 517, 2012-2027.	1.6	3
182	Close encounters of stars with stellar-mass black hole binaries. Monthly Notices of the Royal Astronomical Society, 2022, 516, 2204-2217.	1.6	9
183	The Origin of the Doppler Flip in HD 100546: A Large-scale Spiral Arm Generated by an Inner Binary Companion. Astrophysical Journal Letters, 2022, 936, L4.	3.0	5
184	A Multifluid Dust Module in Athena++: Algorithms and Numerical Tests. Astrophysical Journal, Supplement Series, 2022, 262, 11.	3.0	13
185	FSISPH: An SPH formulation for impacts between dissimilar materials. Journal of Computational Physics, 2022, 469, 111533.	1.9	2
186	Polar alignment of a massive retrograde circumbinary disc around an eccentric binary. Monthly Notices of the Royal Astronomical Society, 2022, 517, 732-743.	1.6	5
187	Common envelope binary interaction simulations between a thermally pulsating AGB star and a low mass companion. Monthly Notices of the Royal Astronomical Society, 2022, 517, 3181-3199.	1.6	9
188	Star cluster formation in clouds with externally driven turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 516, 4212-4219.	1.6	1
189	Common envelopes in massive stars II: The distinct roles of hydrogen and helium recombination. Monthly Notices of the Royal Astronomical Society, 2022, 516, 4669-4678.	1.6	17
190	Effect of Process Parameters on Melt Pool Geometry in Laser Powder Bed Fusion of Metals: A Numerical Investigation. Procedia CIRP, 2022, 113, 378-384.	1.0	8
191	Simulated optical light curves of super-Eddington tidal disruption events with ZEBRA flows. Monthly Notices of the Royal Astronomical Society, 2022, 517, 6013-6021.	1.6	4
192	The Effect of Binary Eccentricity on the Development of a Warp in a Protoplanetary Disk. Research Notes of the AAS, 2022, 6, 216.	0.3	1
193	Sustained FU Orionis-type outbursts from colliding discs in stellar flybys. Monthly Notices of the Royal Astronomical Society, 2022, 517, 4436-4446.	1.6	9
194	Continuing to hide signatures of gravitational instability in protoplanetary discs with planets. Monthly Notices of the Royal Astronomical Society, 2022, 518, 763-773.	1.6	2
195	Stars Crushed by Black Holes. III. Mild Compression of Radiative Stars by Supermassive Black Holes. Astrophysical Journal, 2022, 939, 71.	1.6	1
196	Axisymmetric smoothed particle magneto-hydrodynamics. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	1
197	Mesh-free hydrodynamics in <scp>pkdgrav3</scp> for galaxy formation simulations. Monthly Notices of the Royal Astronomical Society, 2022, 519, 300-317.	1.6	3
198	Differences in chemical evolution between isolated and embedded prestellar cores. Monthly Notices of the Royal Astronomical Society, 2022, 518, 4839-4844.	1.6	3

		CITATION R	EPORT	
#	Article		IF	Citations
199	Locating Hidden Exoplanets in ALMA Data Using Machine Learning. Astrophysical Journal	, 2022, 941, 192.	1.6	2
200	On the Jacobi capture origin of binaries with applications to the Earth-Moon system and galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2022, 518, 5653-566	black holes in 59.	1.6	10
201	Using Molecular Gas Observations to Guide Initial Conditions for Star Cluster Simulation Notices of the Royal Astronomical Society, 0, , .	s. Monthly	1.6	1
202	Do simulated molecular clouds look like real ones?. Monthly Notices of the Royal Astrono Society, 2023, 519, 6392-6400.	omical	1.6	3
203	Dynamics of dust grains in turbulent molecular clouds. Astronomy and Astrophysics, 202	23, 671, A128.	2.1	2
204	Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYS): Characterizat young star T CrA and its circumstellar environment. Astronomy and Astrophysics, 2023,	ion of the 671, A82.	2.1	3
205	Tidal capture of stars by supermassive black holes: implications for periodic nuclear trans quasi-periodic eruptions. Monthly Notices of the Royal Astronomical Society: Letters, 20 L38-L41.		1.2	5
207	Formation of polar circumstellar discs in binary star systems. Monthly Notices of the Roy Astronomical Society, 2023, 520, 2952-2964.	al	1.6	5
208	Bliski iz globin vesolja. Alternator, 0, , .		0.0	0
209	Kinematic and thermal signatures of the directly imaged protoplanet candidate around E Monthly Notices of the Royal Astronomical Society: Letters, 2023, 526, L41-L46.	lias 2â^'24.	1.2	3
210	Precession and polar alignment of accretion discs in triple (or multiple) stellar systems. N Notices of the Royal Astronomical Society, 2023, 520, 5817-5827.	Ionthly	1.6	4
211	Modules for Experiments in Stellar Astrophysics (MESA): Time-dependent Convection, Er Conservation, Automatic Differentiation, and Infrastructure. Astrophysical Journal, Suppl Series, 2023, 265, 15.		3.0	90
212	Confirmation and Keplerian motion of the gap-carving protoplanet HD 169142 b. Month the Royal Astronomical Society: Letters, 2023, 522, L51-L55.	ly Notices of	1.2	14
213	Exciting spiral arms in protoplanetary discs from flybys. Monthly Notices of the Royal Ast Society, 2023, 521, 3500-3516.	ronomical	1.6	3
214	The Mass Fallback Rate of the Debris in Relativistic Stellar Tidal Disruption Events. Astrop Journal, 2023, 946, 25.	hysical	1.6	2
215	Gas and star kinematics in cloud–cloud collisions. Monthly Notices of the Royal Astron Society, 2023, 522, 891-911.	omical	1.6	2
216	3D simulations of AGB stellar winds. II. Ray-tracer implementation and impact of radiatio outflow morphology. Astronomy and Astrophysics, 0, , .	n on the	2.1	1
217	Kinematic Evidence of an Embedded Protoplanet in HD 142666 Identified by Machine Le Astrophysical Journal, 2023, 947, 60.	arning.	1.6	0

#	ARTICLE	IF	CITATIONS
218	Simulations of common-envelope evolution in binary stellar systems: physical models and numerical techniques. Living Reviews in Solar Physics, 2023, 9, .	5.0	22
226	Simulation Verification in Practice. Synthese Library, 2023, , 151-170.	0.1	0
257	Integrating astrochemistry in hydrodynamics. , 2024, , 323-336.		0
261	High-Performance Computing forÂAstrophysical Simulations andÂAstroparticle Observations. Communications in Computer and Information Science, 2024, , 184-196.	0.4	0