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## Control of star formation by supersonic turbulence

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1297	Protostellar angular momentum evolution during gravoturbulent fragmentation. <i>Astronomy and Astrophysics</i> , <b>2004</b> , 423, 1-12	5.1	39
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748	THE INTERSTELLAR MEDIUM AND STAR FORMATION IN LOCAL GALAXIES: VARIATIONS OF THE STAR FORMATION LAW IN SIMULATIONS. <i>Astrophysical Journal</i> , <b>2014</b> , 786, 56	4-7	6
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726	CARMA LARGE AREA STAR FORMATION SURVEY: STRUCTURE AND KINEMATICS OF DENSE GAS IN SERPENS MAIN. <i>Astrophysical Journal</i> , <b>2014</b> , 797, 76	4-7	46
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702	The impact of turbulence and magnetic field orientation on star-forming filaments. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2015</b> , 452, 2410-2422	4.3	65
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698	Saturation of the turbulent dynamo. <b>2015</b> , 92, 023010		39
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547	The SILCC project III. Regulation of star formation and outflows by stellar winds and supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 466, 1903-1924	4-3	106
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534	Connecting the Cosmic Star Formation Rate with the Local Star Formation. <i>Astrophysical Journal</i> , <b>2017</b> , 849, 108	4-7	3
533	Numerical Simulations of Turbulent Molecular Clouds Regulated by Radiation Feedback Forces. II. Radiation Gas Interactions and Outflows. <i>Astrophysical Journal</i> , <b>2017</b> , 850, 112	4-7	21
532	The driving of turbulence in simulations of molecular cloud formation and evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 472, 2496-2503	4-3	17
531	SILCC-Zoom: the dynamic and chemical evolution of molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 472, 4797-4818	4-3	62
530	The impact of magnetic fields on the chemical evolution of the supernova-driven ISM. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 465, 4611-4633	4-3	8
529	Simulating radiative feedback and star cluster formation in GMCs III. Mass dependence of cloud destruction and cluster properties. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 470, 3346-3358	4-3	29
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517	The collapse of a molecular cloud core to stellar densities using radiation non-ideal magnetohydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 1859-1880	4-3	34
516	Simulating the UV escape fractions from molecular cloud populations in star-forming dwarf and spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 3121-3134	4-3	20
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513	The Properties of Planck Galactic Cold Clumps in the L1495 Dark Cloud. <i>Astrophysical Journal</i> , <b>2018</b> , 856, 141	4-7	15
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509	Hierarchical Fragmentation in the Perseus Molecular Cloud: From the Cloud Scale to Protostellar Objects. <i>Astrophysical Journal</i> , <b>2018</b> , 853, 5	4-7	31
508	Fast deuterium fractionation in magnetized and turbulent filaments. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 478, 95-109	4-3	12

507	The Resolved Stellar Populations in the LEGUS Galaxies1. <b>2018</b> , 235, 23		34
506	Modelling dust polarization observations of molecular clouds through MHD simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 474, 5122-5142	4.3	22
505	A Model for the Onset of Self-gravitation and Star Formation in Molecular Gas Governed by Galactic Forces. I. Cloud-scale Gas Motions. <i>Astrophysical Journal</i> , <b>2018</b> , 854, 100	4.7	41
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502	Amplification and attenuation of shock wave strength caused by homogeneous isotropic turbulence. <b>2018</b> , 30, 035105		11
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500	Multiwavelength Studies of Young OB Associations. <b>2018</b> , 119-141		5
499	Unbound Young Stellar Systems: Star Formation on the Loose. <b>2018</b> , 130, 072001		32
498	The Gaia-ESO Survey and CSI 2264: Substructures, disks, and sequential star formation in the young open cluster NGC 2264. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 609, A10	5.1	32
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494	A dynamical mechanism for the origin of nuclear rings. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 2-19	4.3	25
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490	The classical D-type expansion of spherical H ii regions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 479, 2016-2023	4.3	16



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487	Supergiants and their shells in young globular clusters. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 612, A55	5.1	8
486	Star formation from dense shocked regions in supersonic isothermal magnetoturbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 480, 3916-3927	4.3	21
485	The VLT-FLAMES Tarantula Survey. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 618, A73	5.1	39
484	A localised dynamic closure model for Euler turbulence. <b>2018</b> , 32, 326-378		3
483	Mass and internal-energy transports in strongly compressible magnetohydrodynamic turbulence. <b>2018</b> , 84,		8
482	Revealing H i gas in emission and absorption on pc to kpc scales in a galaxy at $z \sim 0.017$ . <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 476, 2432-2445	4.3	14
481	Testing star formation laws in a starburst galaxy at redshift 3 resolved with ALMA. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 477, 4380-4390	4.3	28
480	A comparison of shockcloud and windcloud interactions: effect of increased cloud density contrast on cloud evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 476, 2209-2219	4.3	8
479	Turbulent hydrodynamics experiments in high energy density plasmas: scientific case and preliminary results of the TurboHEDP project. <b>2018</b> , 6,		5
478	Kinematics of the atomic ISM in M33 on 80 pc scales. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 479, 2505-2533	4.3	22
477	From the top down and back up again: star cluster structure from hierarchical star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 688-702	4.3	25
476	Testing the Larson relations in massive clumps. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 477, 2220-2242	4.3	38
475	Gradients of Synchrotron Polarization: Tracing 3D Distribution of Magnetic Fields. <i>Astrophysical Journal</i> , <b>2018</b> , 865, 59	4.7	27
474	ALMA observations of RCW 120 Fragmentation at 0.01 pc scale. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 616, L10	5.1	10
473	On the origin of magnetic fields in stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 2450-2457	4.3	17
472	On the indeterministic nature of star formation on the cloud scale. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 2548-2569	4.3	27



471	Star Cluster Formation in Cosmological Simulations. II. Effects of Star Formation Efficiency and Stellar Feedback. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 107	4-7	34
470	Compression of turbulent magnetized gas in giant molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 473, 2144-2159	4-3	13
469	Filament formation in wind-cloud interactions II. Clouds with turbulent density, velocity, and magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 473, 3454-3489	4-3	33
468	Accretion-driven turbulence in filaments I. Non-gravitational accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 474, 4881-4893	4-3	7
467	Shaken and stirred: the effects of turbulence and rotation on disc and outflow formation during the collapse of magnetized molecular cloud cores. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 477, 4241-4256	4-3	13
466	Turbulence in space plasmas and beyond. <b>2018</b> , 51, 293001		12
465	The CARMA-NRO Orion Survey. <b>2018</b> , 236, 25		44
464	Kinematics and structure of star-forming regions: insights from cold collapse models. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 473, 2372-2377	4-3	17
463	Magnetic tension and instabilities in the Orion A integral-shaped filament. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 121-127	4-3	13
462	An uncertainty principle for star formation III. A new method for characterizing the cloud-scale physics of star formation and feedback across cosmic history. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 479, 1866-1952	4-3	54
461	Compact Dusty Clouds and Efficient H <sub>2</sub> Formation in Diffuse Interstellar Medium. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 30	4-7	4
460	Spectral shifting strongly constrains molecular cloud disruption by radiation pressure on dust. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 611, A70	5-1	19
459	Stratified Kelvin-Helmholtz turbulence of compressible shear flows. <b>2018</b> , 25, 457-476		4
458	Expanding CO Shells in the Orion A Molecular Cloud. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 121	4-7	12
457	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 65	4-7	36
456	Dust-Polarization Maps for Local Interstellar Turbulence. <b>2018</b> , 121, 021104		26
455	Gas expulsion in highly substructured embedded star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 476, 5341-5357	4-3	16
454	The Star Formation Rate in the Gravoturbulent Interstellar Medium. <i>Astrophysical Journal</i> , <b>2018</b> , 863, 118	4-7	47

453	The turbulent formation of stars. <b>2018</b> , 71, 38-42		44
452	Numerical Methods for Simulating Star Formation. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2019</b> , 6,	3.8	8
451	Formation of quasi-periodic slow magnetoacoustic wave trains by the heating/cooling misbalance. <b>2019</b> , 26, 082113		32
450	On the Formation of Density Filaments in the Turbulent Interstellar Medium. <i>Astrophysical Journal</i> , <b>2019</b> , 878, 157	4.7	30
449	Momentum and energy injection by a supernova remnant into an inhomogeneous medium. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 488, 3376-3395	4.3	6
448	Hydrodynamic and magnetohydrodynamic simulations of wire turbulence. <b>2019</b> , 33, 100699		0
447	Structure and expansion law of H ii regions in structured molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 2200-2214	4.3	13
446	The Evolution and Origin of Ionized Gas Velocity Dispersion from $z \sim 2.6$ to $z \sim 0.6$ with KMOS3D. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 48	4.7	43
445	The relation between the true and observed fractal dimensions of turbulent clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 2070-2081	4.3	9
444	Probing the cold magnetised Universe with SPICA-POL (B-BOP). <b>2019</b> , 36,		11
443	Simulating star clusters across cosmic time I. Initial mass function, star formation rates, and efficiencies. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 489, 1880-1898	4.3	22
442	Kinematic signatures of cluster formation from cool collapse in the Lagoon Nebula cluster NGC 6530. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 489, 2694-2701	4.3	2
441	Global hierarchical collapse in molecular clouds. Towards a comprehensive scenario. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 490, 3061-3097	4.3	76
440	The Role of Magnetic Fields in Setting the Star Formation Rate and the Initial Mass Function. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2019</b> , 6,	3.8	68
439	Anisotropic Structure of Synchrotron Polarization. <i>Astrophysical Journal</i> , <b>2019</b> , 877, 108	4.7	7
438	Turbulence Driven by Stellar Jets, the Possibility and the Efficiency. <i>Astrophysical Journal</i> , <b>2019</b> , 883, 160	4.7	1
437	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core $\rho$ Ophiuchus C. <i>Astrophysical Journal</i> , <b>2019</b> , 877, 43	4.7	23
436	Dust Polarization Maps from TIGRESS: E/B Power Asymmetry and TE Correlation. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 106	4.7	17

435	Nobeyama 45 m mapping observations toward the nearby molecular clouds Orion A, Aquila Rift, and M17: Project overview. <b>2019</b> , 71,		16
434	Connecting the Scales: Large Area High-resolution Ammonia Mapping of NGC 1333. <i>Astrophysical Journal</i> , <b>2019</b> , 876, 108	4-7	4
433	Do Androids Dream of Magnetic Fields? Using Neural Networks to Interpret the Turbulent Interstellar Medium. <b>2019</b> , 882, L12		10
432	Thermal instability through the outer half of quasi-static spherically symmetric molecular clumps and cores. <b>2019</b> , 364, 1		
431	The role of molecular filaments in the origin of the prestellar core mass function and stellar initial mass function. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 629, L4	5-1	27
430	MHD turbulence. <b>2019</b> , 5, 1		20
429	Statistics of overpressure fluctuations behind a weak shock wave interacting with turbulence. <b>2019</b> , 31, 085119		7
428	Cloudlet capture by transitional disk and FU Orionis stars. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 628, A20	5-1	20
427	The relation between the turbulent Mach number and observed fractal dimensions of turbulent clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 488, 2493-2502	4-3	9
426	Statistical properties of spherical shock waves propagating through grid turbulence, turbulent cylinder wake, and laminar flow. <b>2019</b> , 94, 044004		2
425	Measuring the filamentary structure of interstellar clouds through wavelets. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 621, A5	5-1	11
424	warpfield2.0: feedback-regulated minimum star formation efficiencies of giant molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 483, 2547-2560	4-3	39
423	The Origin of Interstellar Turbulence in M33. <i>Astrophysical Journal</i> , <b>2019</b> , 871, 17	4-7	15
422	The role of turbulence during the formation of circumbinary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 486, 3647-3663	4-3	9
421	Gaia stellar kinematics in the head of the Orion A cloud: runaway stellar groups and gravitational infall. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 2977-3000	4-3	26
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419	MHD Turbulence in a Partially Ionized Medium. <b>2019</b> , 1-35		
418	A physical approach to modelling large-scale galactic magnetic fields. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 623, A113	5-1	17

417	Magnetic fields from turbulent gas motions. <b>2019</b> , 3, 692-693		1
416	Fast and inefficient star formation due to short-lived molecular clouds and rapid feedback. <b>2019</b> , 569, 519-522		109
415	Non-linear diffusion of cosmic rays escaping from supernova remnants III. Hot ionized media. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 484, 2684-2691	4-3	20
414	Chaotic behavior of Eulerian magnetohydrodynamic turbulence. <b>2019</b> , 26, 042303		3
413	On the origin of multiple populations during massive star cluster formation. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 486, 1146-1155	4-3	9
412	Tracing Magnetic Field Morphology Using the Velocity Gradient Technique in the Presence of CO Self-absorption. <i>Astrophysical Journal</i> , <b>2019</b> , 873, 16	4-7	16
411	The CARMABRO Orion Survey: Statistical Signatures of Feedback in the Orion A Molecular Cloud. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 162	4-7	5
410	On the resolution requirements for modelling molecular gas formation in solar neighbourhood conditions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 484, 1735-1755	4-3	18
409	Thermal emission from bow shocks. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 625, A4	5-1	13
408	Dense gas is not enough: environmental variations in the star formation efficiency of dense molecular gas at 100 pc scales in M 51. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 625, A19	5-1	32
407	Direct Numerical Simulations of Interaction Between Planar Shock Wave and Homogeneous Isotropic Turbulence at Low Turbulent Mach Number. <b>2019</b> , 1201-1207		
406	Shock Waves and Energy Dissipation in Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 2	4-7	21
405	Mass inflow rate into the Central Molecular Zone: observational determination and evidence of episodic accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 484, 1213-1219	4-3	33
404	Dependence of Hall coefficient on grain size and cosmic ray rate and implication for circumstellar disc formation. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 484, 2119-2136	4-3	15
403	Sheets, filaments, and clumps III high-resolution simulations of how the thermal instability can form molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 485, 4686-4702	4-3	12
402	The role of initial magnetic field structure in the launching of protostellar jets. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 485, 5532-5542	4-3	13
401	Numerical simulations of supernova remnants in turbulent molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 482, 1602-1617	4-3	19
400	The dynamical evolution of molecular clouds near the Galactic Centre III. Spatial structure and kinematics of simulated clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 484, 5734-5754	4-3	56

399	The Gaia-ESO Survey: Age spread in the star forming region NGC 6530 from the HR diagram and gravity indicators. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 623, A159	5.1	17
398	Planet Formation and Disk-Planet Interactions. <b>2019</b> , 151-260		4
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391	Review of Zeeman Effect Observations of Regions of Star Formation. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2019</b> , 6,	3.8	22
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389	A Comparison between Faraday Tomography and Synchrotron Polarization Gradients. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 258	4.7	4
388	Kinetic and internal energy transfer in implicit large-eddy simulations of forced compressible turbulence. <b>2019</b> , 100, 043116		6
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385	Tracing Multi-scale Magnetic Field Structure Using Multiple Chemical Tracers in Giant Molecular Clouds. <i>Astrophysical Journal</i> , <b>2019</b> , 884, 137	4.7	16
384	Kinematics in Young Star Clusters and Associations with GaiaDR2. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 32	4.7	142
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382	Late encounter events as source of disks and spiral structures. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 633, A3	5.1	14

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379	Non-ideal magnetohydrodynamics versus turbulence I. Which is the dominant process in protostellar disc formation?. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 495, 3795-3806	4-3	12
378	Implementation of stellar heating feedback in simulations of star cluster formation: effects on the initial mass function. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 496, 5201-5210	4-3	11
377	Pressure balance in the multiphase ISM of cosmologically simulated disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 3664-3683	4-3	15
376	Shock-multicloud interactions in galactic outflows I. Cloud layers with lognormal density distributions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 499, 2173-2195	4-3	7
375	Linear dust polarization during the embedded phase of protostar formation. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 639, A137	5-1	3
374	Properties of Magnetohydrodynamic Modes in Compressively Driven Plasma Turbulence. <b>2020</b> , 10,		8
373	The complex large-scale magnetic fields in the first Galactic quadrant as revealed by the Faraday depth profile disparity. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 497, 3097-3117	4-3	3
372	Statistical analysis of deformation of a shock wave propagating in a local turbulent region. <b>2020</b> , 32, 096107		4
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369	Generation of chiral asymmetry via helical magnetic fields. <b>2020</b> , 101,		10
368	Parameters of the Supernova-Driven Interstellar Turbulence. <b>2020</b> , 8, 56		1
367	Jet-ISM interactions near the microquasars GRS 17580-58 and 1E 1740.7-942. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 497, 3504-3524	4-3	7
366	Evidence of large-scale energy cascade in the spiral galaxy NGC 5236. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 496, 1803-1810	4-3	4
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361	The evolution of large cavities and disc eccentricity in circumbinary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 499, 3362-3380	4-3	20
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358	Multiwavelength Polarimetry of the Filamentary Cloud IC 5146. II. Magnetic Field Structures. <i>Astrophysical Journal</i> , <b>2020</b> , 888, 13	4-7	9
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348	Spatial power spectra of dust across the Local Group: No constraint on disc scale height. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 492, 2663-2682	4-3	5
347	Analyzing the instability dynamics of spherical complex astroclouds in a magnetized meanfluidic fabric. <b>2020</b> , 27, 022902		6
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341	Experimental investigation of interactions between turbulent cylinder wake and spherical shock wave. <b>2020</b> , 32, 016101		2
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338	Cloud fragmentation cascades and feedback: on reconciling an unfettered inertial range with a low star formation rate. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 815-820	4.3	
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336	Self-consistent proto-globular cluster formation in cosmological simulations of high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 4315-4332	4.3	35
335	3D turbulent reconnection: Theory, tests, and astrophysical implications. <b>2020</b> , 27, 012305		74
334	Formation of the First Stars and Black Holes. <b>2020</b> , 216, 1		18
333	On the turbulence driving mode of expanding H ii regions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 4643-4656	4.3	7
332	Magnetic Fields in Elliptical Galaxies: An Observational Probe of the Fluctuation Dynamo Action. <i>Astrophysical Journal</i> , <b>2021</b> , 907, 2	4.7	3
331	Interactions of a shock with a molecular cloud at various stages of its evolution due to thermal instability and gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 501, 3137-3154	4.3	3
330	Turbulence in compressible flows. <b>2021</b> , 399-481		0
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328	Heightened Faraday complexity in the inner 1 kpc of the galactic centre. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 502, 3814-3828	4.3	2

327	The sonic scale of interstellar turbulence. <b>2021</b> , 5, 365-371		20
326	OUP accepted manuscript. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	5
325	H II regions and high-mass starless clump candidates. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 646, A25	5.1	4
324	Diffusion of large-scale magnetic fields by reconnection in MHD turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 1290-1309	4.3	1
323	Density profile evolution during prestellar core collapse: collapse starts at the large scale. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 502, 4963-4971	4.3	6
322	A Search for Correlations between Turbulence and Star Formation in LITTLE THINGS Dwarf Irregular Galaxies. <i>Astronomical Journal</i> , <b>2021</b> , 161, 175	4.9	3
321	Scatter-free acceleration of particles by interaction with plasma shock waves in the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 2195-2202	4.3	
320	Mapping luminous hot stars in the Galaxy. <i>Astronomy and Astrophysics</i> ,	5.1	11
319	Collapsing index: a new method to identify star-forming cores based on ALMA images. <b>2021</b> , 21, 026		
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316	Revealing Gravitational Collapse in the Serpens G306 Molecular Cloud Using Velocity Gradients. <i>Astrophysical Journal</i> , <b>2021</b> , 912, 2	4.7	4
315	Rydberg States of H and HeH as Potential Coolants for Primordial Star Formation. <b>2021</b> , 125, 4267-4275		0
314	Towards a better understanding of supernova environments: a study of SNe 2004dg and 2012P in NGC 5806 with HST and MUSE. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 2253-2272	4.3	5
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312	Planck Cold Clumps in the $\square$ Drionis Complex. III. A Chemical Probe of Stellar Feedback on Cores in the $\square$ Drionis Cloud. <b>2021</b> , 254, 14		1
311	Anisotropies in Compressible MHD Turbulence: Probing Magnetic Fields and Measuring Magnetization. <i>Astrophysical Journal</i> , <b>2021</b> , 911, 37	4.7	4
310	Star Formation Efficiency and Dispersal of Giant Molecular Clouds with UV Radiation Feedback: Dependence on Gravitational Boundedness and Magnetic Fields. <i>Astrophysical Journal</i> , <b>2021</b> , 911, 128	4.7	19

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308	Description of turbulent dynamics in the interstellar medium: multifractal-microcanonical analysis. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 649, A33	5-1	0
307	STARFORGE: Towards a comprehensive numerical model of star cluster formation and feedback. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4-3	22
306	Measuring Young Stars in Space and Time. I. The Photometric Catalog and Extinction Properties of N44. <i>Astronomical Journal</i> , <b>2021</b> , 161, 256	4-9	1
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303	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. <b>2021</b> , 912, L27		3
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301	The JCMT BISTRO Survey: The Distribution of Magnetic Field Strengths toward the OMC-1 Region. <i>Astrophysical Journal</i> , <b>2021</b> , 913, 85	4-7	1
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299	Experimental study of shock wave modulation caused by velocity and temperature fluctuations in cylinder wakes. <b>2021</b> , 6,		1
298	Density profile of a self-gravitating polytropic turbulent fluid in the context of ensembles of molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 505, 3655-3663	4-3	1
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296	Simulations of cosmic ray propagation. <b>2021</b> , 7, 2		4
295	Alignment of the magnetic field in star-forming regions and why it might be difficult to observe. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 5641-5657	4-3	2
294	Network of Star Formation: Fragmentation Controlled by Scale-dependent Turbulent Pressure and Accretion onto the Massive Cores Revealed in the Cygnus-X GMC Complex. <i>Astrophysical Journal</i> , <b>2021</b> , 916, 13	4-7	1
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292	High-order semi-Lagrangian kinetic scheme for compressible turbulence. <b>2021</b> , 104, 025301		1

291	Maximum accretion rate of supermassive stars. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 652, L7	5.1	3
290	Chemical analysis of prestellar cores in Ophiuchus yields short timescales and rapid collapse. <i>Astronomy and Astrophysics</i> ,	5.1	2
289	Local Hi filaments driven by a small-scale dynamo. Unraveling the velocities and tangling of dusty magnetized structures. <i>Astronomy and Astrophysics</i> ,	5.1	1
288	The IMF and multiplicity of stars from gravity, turbulence, magnetic fields, radiation, and outflow feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 2448-2467	4.3	7
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285	The dependence of the hierarchical distribution of star clusters on galactic environment. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 5542-5566	4.3	1
284	Shocked Molecular Hydrogen and Broad CO Lines from the Interacting Supernova Remnant HB 3. <i>Astrophysical Journal</i> , <b>2021</b> , 917, 47	4.7	0
283	Solenoidal linear forcing for compressible, statistically steady, homogeneous isotropic turbulence with reduced turbulent Mach number oscillation. <b>2021</b> , 33, 095108		3
282	Turbulence and its connection to episodic accretion in binary YSOs. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 6061-6077	4.3	2
281	TIMES. I. A Systematic Observation in Multiple Molecular Lines toward the Orion A and Ophiuchus Clouds. <b>2021</b> , 256, 16		2
280	Calibrating the Davis-Chandrasekhar-Fermi Method with Numerical Simulations: Uncertainties in Estimating the Magnetic Field Strength from Statistics of Field Orientations. <i>Astrophysical Journal</i> , <b>2021</b> , 919, 79	4.7	4
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277	OUP accepted manuscript. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	0
276	The Turbulent Interstellar Medium: Insights and Questions from Numerical Models. <b>2004</b> , 339-346		1
275	The Stellar Mass Spectrum from Non-Isothermal Gravoturbulent Fragmentation. <b>2005</b> , 363-370		2
274	Turbulent Control of the Star Formation Efficiency. <b>2005</b> , 371-378		2

273	Initial Conditions for Star Clusters. <b>2008</b> , 181-259		56
272	The Panchromatic Hubble Andromeda Treasury. Progression of Large-Scale Star Formation Across Space and Time in M 31. <b>2015</b> , 289-299		1
271	Simulating Turbulence Using the Astrophysical Discontinuous Galerkin Code TENET. <b>2016</b> , 381-402		4
270	3D Meshfree Magnetohydrodynamics. <b>2008</b> , 247-275		2
269	An Introduction to Fluid and MHD Turbulence for Astrophysical Flows: Theory, Observational and Numerical Data, and Modeling. <b>2009</b> , 71-128		8
268	Formation of the First Galaxies: Theory and Simulations. <b>2013</b> , 177-222		4
267	Ambipolar Diffusion. <b>2015</b> , 285-309		5
266	Interstellar MHD Turbulence and Star Formation. <b>2015</b> , 401-444		9
265	Physical Processes in the Interstellar Medium. <b>2016</b> , 85-249		82
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262	Brown dwarfs and very low mass stars in the Praesepe open cluster: a dynamically unevolved mass function?. <i>Astronomy and Astrophysics</i> , <b>2010</b> , 510, A27	5.1	23
261	Probing the evolution of molecular cloud structure. <i>Astronomy and Astrophysics</i> , <b>2009</b> , 508, L35-L38	5.1	295
260	CN Zeeman observations of the NGC 2264-C protocluster. <i>Astronomy and Astrophysics</i> , <b>2012</b> , 544, A69	5.1	3
259	Magnetic field structure around cores with very low luminosity objects. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 573, A34	5.1	18
258	Star formation in Chamaeleon I and III: a molecular line study of the starless core population. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 575, A27	5.1	7
257	Spatially resolved physical conditions of molecular gas and potential star formation tracers in M 83, revealed by the Herschel SPIRE FTS. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 575, A88	5.1	26
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255	Slingshot mechanism in Orion: Kinematic evidence for ejection of protostars by filaments. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 590, A2	5.1	77
254	Synchrotron emission in molecular cloud cores: the SKA view. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 620, L4	5.1	5
253	H II regions and high-mass starless clump candidates. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 637, A40	5.1	5
252	Properties of OB star-black hole systems derived from detailed binary evolution models. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 638, A39	5.1	29
251	Dynamical cloud formation traced by atomic and molecular gas. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 638, A44	5.1	5
250	Bipolar molecular outflow of the very low-mass star Par-Lup3-4. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 640, A13	5.1	2
249	Evidence for supernova feedback sustaining gas turbulence in nearby star-forming galaxies. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 641, A70	5.1	25
248	Interstellar anatomy of the TeV gamma-ray peak in the IC443 supernova remnant. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 644, A64	5.1	1
247	The history of dynamics and stellar feedback revealed by the H I filamentary structure in the disk of the Milky Way. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 642, A163	5.1	8
246	Protostellar mass accretion rates from gravoturbulent fragmentation. <i>Astronomy and Astrophysics</i> , <b>2004</b> , 419, 405-417	5.1	56
245	Simulating star formation in molecular cores. <i>Astronomy and Astrophysics</i> , <b>2004</b> , 423, 169-182	5.1	104
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