

Christopher F Mckee

List of Publications by Year in descending order

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117
papers

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30551

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120
docs citations

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times ranked

6983
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping the magnetic field in the Taurus/B211 filamentary cloud with SOFIA HAWC+ and comparing with simulation. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6085-6109.	1.6	24
2	Magnetic fields in the formation of the first stars – II. Results. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5042-5069.	1.6	15
3	Turbulence in the heavens. Nature Astronomy, 2021, 5, 342-343.	4.2	3
4	Infrared dust echoes from neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3672-3689.	1.6	4
5	Magnetic fields in the formation of the first stars – I. Theory versus simulation. Monthly Notices of the Royal Astronomical Society, 2020, 496, 5528-5551.	1.6	31
6	Massive Warm/Hot Galaxy Coronae. II. Isentropic Model. Astrophysical Journal, 2020, 893, 82.	1.6	44
7	How do bound star clusters form?. Monthly Notices of the Royal Astronomical Society, 2020, 494, 624-641.	1.6	33
8	Star Clusters Across Cosmic Time. Annual Review of Astronomy and Astrophysics, 2019, 57, 227-303.	8.1	363
9	Effect of angular momentum alignment and strong magnetic fields on the formation of protostellar discs. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2124-2143.	1.6	40
10	Ultra-Compact High Velocity Clouds as Minihalos and Dwarf Galaxies. Proceedings of the International Astronomical Union, 2018, 14, 483-487.	0.0	0
11	Dark Matter that Interacts with Baryons: Density Distribution within the Earth and New Constraints on the Interaction Cross-section. Astrophysical Journal, 2018, 866, 111.	1.6	26
12	Formation of stellar clusters in magnetized, filamentary infrared dark clouds. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4220-4241.	1.6	43
13	The effects of magnetic fields and protostellar feedback on low-mass cluster formation. Monthly Notices of the Royal Astronomical Society, 2018, 476, 771-792.	1.6	58
14	The Supernova Rate beyond the Optical Radius. Astrophysical Journal Letters, 2018, 863, L1.	3.0	5
15	The high-mass slope of the IMF. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2449-2465.	1.6	7
16	MASSIVE WARM/HOT GALAXY CORONAE AS PROBED BY UV/X-RAY OXYGEN ABSORPTION AND EMISSION. I. BASIC MODEL. Astrophysical Journal, 2017, 835, 52.	1.6	107
17	Moving-mesh Simulations of Star-forming Cores in Magneto-gravo-turbulence. Astrophysical Journal, 2017, 838, 40.	1.6	69
18	Chemistry and radiative shielding in star-forming galactic discs. Monthly Notices of the Royal Astronomical Society, 2017, 465, 885-905.	1.6	44

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19	Bondi–Hoyle accretion in a turbulent, magnetized medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 717-727.	1.6	5
20	An unstable truth: how massive stars get their mass. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2553-2573.	1.6	100
21	What physics determines the peak of the IMF? Insights from the structure of cores in radiation-magnetohydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3272-3283.	1.6	40
22	Magnetized interstellar molecular clouds – I. Comparison between simulations and Zeeman observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2500-2527.	1.6	65
23	The CH ⁺ abundance in turbulent, diffuse molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2748-2759.	1.6	24
24	The linewidth-size scaling law of molecular gas revisited. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 714-715.	0.0	0
25	Numerical simulation of star formation in filamentary dark molecular clouds. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 103-106.	0.0	0
26	The turbulent origin of spin–orbit misalignment in planetary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3306-3318.	1.6	96
27	STARS, GAS, AND DARK MATTER IN THE SOLAR NEIGHBORHOOD. <i>Astrophysical Journal</i> , 2015, 814, 13.	1.6	193
28	BONDI-HOYLE ACCRETION IN AN ISOTHERMAL MAGNETIZED PLASMA. <i>Astrophysical Journal</i> , 2014, 783, 50.	1.6	27
29	THE FRAGMENTATION OF MAGNETIZED, MASSIVE STAR-FORMING CORES WITH RADIATIVE FEEDBACK. <i>Astrophysical Journal</i> , 2013, 766, 97.	1.6	143
30	INTERSTELLAR H ₂ O MASERS FROM J SHOCKS. <i>Astrophysical Journal</i> , 2013, 773, 70.	1.6	67
31	RADIATION TRANSFER OF MODELS OF MASSIVE STAR FORMATION. II. EFFECTS OF THE OUTFLOW. <i>Astrophysical Journal</i> , 2013, 766, 86.	1.6	29
32	ULTRA-COMPACT HIGH VELOCITY CLOUDS AS MINIHALOS AND DWARF GALAXIES. <i>Astrophysical Journal</i> , 2013, 777, 119.	1.6	37
33	A MASSIVE PROTOSTAR FORMING BY ORDERED COLLAPSE OF A DENSE, MASSIVE CORE. <i>Astrophysical Journal</i> , 2013, 767, 58.	1.6	30
34	PHOTOMETRIC REDSHIFTS OF SUBMILLIMETER GALAXIES. <i>Astrophysical Journal</i> , 2013, 773, 113.	1.6	6
35	RADIATION-HYDRODYNAMIC SIMULATIONS OF THE FORMATION OF ORION-LIKE STAR CLUSTERS. II. THE INITIAL MASS FUNCTION FROM WINDS, TURBULENCE, AND RADIATION. <i>Astrophysical Journal</i> , 2012, 754, 71.	1.6	178
36	A UNIVERSAL, LOCAL STAR FORMATION LAW IN GALACTIC CLOUDS, NEARBY GALAXIES, HIGH-REDSHIFT DISKS, AND STARBURSTS. <i>Astrophysical Journal</i> , 2012, 745, 69.	1.6	417

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37	AMBIPOLAR DIFFUSION HEATING IN TURBULENT SYSTEMS. <i>Astrophysical Journal</i> , 2012, 760, 33.	1.6	25
38	FEEDBACK EFFECTS ON LOW-MASS STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 747, 22.	1.6	80
39	RADIATIVELY EFFICIENT MAGNETIZED BONDI ACCRETION. <i>Astrophysical Journal</i> , 2012, 744, 185.	1.6	17
40	A STABLE, ACCURATE METHODOLOGY FOR HIGH MACH NUMBER, STRONG MAGNETIC FIELD MHD TURBULENCE WITH ADAPTIVE MESH REFINEMENT: RESOLUTION AND REFINEMENT STUDIES. <i>Astrophysical Journal</i> , 2012, 745, 139.	1.6	51
41	SUB-ALFVÉNIC NON-IDEAL MAGNETOHYDRODYNAMIC TURBULENCE SIMULATIONS WITH AMBIPOLAR DIFFUSION. III. IMPLICATIONS FOR OBSERVATIONS AND TURBULENT ENHANCEMENT. <i>Astrophysical Journal</i> , 2012, 744, 73.	1.6	14
42	OBSERVING SIMULATED PROTOSTARS WITH OUTFLOWS: HOW ACCURATE ARE PROTOSTELLAR PROPERTIES INFERRED FROM SEDs?. <i>Astrophysical Journal</i> , 2012, 753, 98.	1.6	49
43	METALLICITY AND THE UNIVERSALITY OF THE INITIAL MASS FUNCTION. <i>Astrophysical Journal</i> , 2011, 735, 49.	1.6	43
44	THE PROTOSTELLAR LUMINOSITY FUNCTION. <i>Astrophysical Journal</i> , 2011, 736, 53.	1.6	97
45	THE GLOBAL EVOLUTION OF GIANT MOLECULAR CLOUDS. II. THE ROLE OF ACCRETION. <i>Astrophysical Journal</i> , 2011, 738, 101.	1.6	98
46	WHICH PHASE OF THE INTERSTELLAR MEDIUM CORRELATES WITH THE STAR FORMATION RATE?. <i>Astrophysical Journal</i> , 2011, 731, 25.	1.6	139
47	AN INITIAL MASS FUNCTION FOR INDIVIDUAL STARS IN GALACTIC DISKS. I. CONSTRAINING THE SHAPE OF THE INITIAL MASS FUNCTION. <i>Astrophysical Journal</i> , 2011, 726, 27.	1.6	44
48	ANISOTROPY LENGTHENS THE DECAY TIME OF TURBULENCE IN MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2011, 738, 88.	1.6	11
49	IRAS 15099+5856: REMARKABLE MID-INFRARED SOURCE WITH PROMINENT CRYSTALLINE SILICATE EMISSION EMBEDDED IN THE SUPERNOVA REMNANT MSH15-52. <i>Astrophysical Journal</i> , 2011, 732, 6.	1.6	11
50	RADIATION-HYDRODYNAMIC SIMULATIONS OF MASSIVE STAR FORMATION WITH PROTOSTELLAR OUTFLOWS. <i>Astrophysical Journal</i> , 2011, 740, 107.	1.6	125
51	RADIATION-HYDRODYNAMIC SIMULATIONS OF THE FORMATION OF ORION-LIKE STAR CLUSTERS. I. IMPLICATIONS FOR THE ORIGIN OF THE INITIAL MASS FUNCTION. <i>Astrophysical Journal</i> , 2011, 740, 74.	1.6	110
52	Let There Be Dust. <i>Science</i> , 2011, 333, 1227-1228.	6.0	3
53	The Luminosity Problem: Testing Theories of Star Formation. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 73-80.	0.0	3
54	Ambipolar Diffusion Effects on Weakly Ionized Turbulence Molecular Clouds. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 421-424.	0.0	0

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55	THE PROTOSTELLAR MASS FUNCTION. <i>Astrophysical Journal</i> , 2010, 716, 167-180.	1.6	39
56	THE ATOMIC-TO-MOLECULAR TRANSITION IN GALAXIES. III. A NEW METHOD FOR DETERMINING THE MOLECULAR CONTENT OF PRIMORDIAL AND DUSTY CLOUDS. <i>Astrophysical Journal</i> , 2010, 709, 308-320.	1.6	149
57	RADIATION FEEDBACK, FRAGMENTATION, AND THE ENVIRONMENTAL DEPENDENCE OF THE INITIAL MASS FUNCTION. <i>Astrophysical Journal</i> , 2010, 713, 1120-1133.	1.6	97
58	THE DARK MOLECULAR GAS. <i>Astrophysical Journal</i> , 2010, 716, 1191-1207.	1.6	538
59	METAL-ION ABSORPTION IN CONDUCTIVELY EVAPORATING CLOUDS. <i>Astrophysical Journal</i> , 2010, 718, 1315-1331.	1.6	41
60	REGULATION OF STAR FORMATION RATES IN MULTIPHASE GALACTIC DISKS: A THERMAL/DYNAMICAL EQUILIBRIUM MODEL. <i>Astrophysical Journal</i> , 2010, 721, 975-994.	1.6	299
61	SUB-ALFVÉNIC NON-IDEAL MHD TURBULENCE SIMULATIONS WITH AMBIPOLAR DIFFUSION. II. COMPARISON WITH OBSERVATION, CLUMP PROPERTIES, AND SCALING TO PHYSICAL UNITS. <i>Astrophysical Journal</i> , 2010, 720, 1612-1634.	1.6	59
62	THE STAR FORMATION LAW IN ATOMIC AND MOLECULAR GAS. <i>Astrophysical Journal</i> , 2009, 699, 850-856.	1.6	342
63	THE ATOMIC-TO-MOLECULAR TRANSITION IN GALAXIES. II: H I AND H ₂ COLUMN DENSITIES. <i>Astrophysical Journal</i> , 2009, 693, 216-235.	1.6	364
64	THE EFFECTS OF RADIATIVE TRANSFER ON LOW-MASS STAR FORMATION. <i>Astrophysical Journal</i> , 2009, 703, 131-149.	1.6	254
65	The formation of the first stars and galaxies. <i>Nature</i> , 2009, 459, 49-54.	13.7	275
66	The Formation of Massive Star Systems by Accretion. <i>Science</i> , 2009, 323, 754-757.	6.0	467
67	A minimum column density of $1 \times 10^{22} \text{ cm}^{-2}$ for massive star formation. <i>Nature</i> , 2008, 451, 1082-1084.	13.7	262
68	Star Formation at Zero and Very Low Metallicities. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	4
69	Far-Infrared Spectral Energy Distributions and Photometric Redshifts of Dusty Galaxies. <i>Astrophysical Journal</i> , 2008, 683, 693-706.	1.6	18
70	Driven and Decaying Turbulence Simulations of Low-Mass Star Formation: From Clumps to Cores to Protostars. <i>Astrophysical Journal</i> , 2008, 686, 1174-1194.	1.6	98
71	The Formation of the First Stars. II. Radiative Feedback Processes and Implications for the Initial Mass Function. <i>Astrophysical Journal</i> , 2008, 681, 771-797.	1.6	211
72	THE KINEMATICS OF MOLECULAR CLOUD CORES IN THE PRESENCE OF DRIVEN AND DECAYING TURBULENCE: COMPARISONS WITH OBSERVATIONS. <i>Astronomical Journal</i> , 2008, 136, 404-420.	1.9	42

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73	A Massive-Star-forming Infrared Loop around the Crab-like Supernova Remnant G54.1+0.3: Post-Main-Sequence Triggered Star Formation?. <i>Astrophysical Journal</i> , 2008, 673, L147-L150.	1.6	40
74	Sub-Alfvénic Nonideal MHD Turbulence Simulations with Ambipolar Diffusion. I. Turbulence Statistics. <i>Astrophysical Journal</i> , 2008, 684, 380-394.	1.6	56
75	The Atomic-to-Molecular Transition in Galaxies. I. An Analytic Approximation for Photodissociation Fronts in Finite Clouds. <i>Astrophysical Journal</i> , 2008, 689, 865-882.	1.6	181
76	Equations and Algorithms for Mixed-frame Flux-limited Diffusion Radiation Hydrodynamics. <i>Astrophysical Journal</i> , 2007, 667, 626-643.	1.6	121
77	Radiation-Hydrodynamic Simulations of Collapse and Fragmentation in Massive Protostellar Cores. <i>Astrophysical Journal</i> , 2007, 656, 959-979.	1.6	313
78	Molecular Line Emission from Massive Protostellar Disks: Predictions for ALMA and EVLA. <i>Astrophysical Journal</i> , 2007, 665, 478-491.	1.6	61
79	Reconstructing Deconstruction: High-Velocity Cloud Distance through Disruption Morphology. <i>Astrophysical Journal</i> , 2007, 656, 907-913.	1.6	45
80	Theory of Star Formation. <i>Annual Review of Astronomy and Astrophysics</i> , 2007, 45, 565-687.	8.1	1,849
81	Bondi-Hoyle Accretion in a Turbulent Medium. <i>Astrophysical Journal</i> , 2006, 638, 369-381.	1.6	69
82	A Galactic Origin for the Local Ionized X-Ray Absorbers. <i>Astrophysical Journal</i> , 2006, 644, 174-179.	1.6	74
83	Equilibrium Star Cluster Formation. <i>Astrophysical Journal</i> , 2006, 641, L121-L124.	1.6	190
84	The Heavy-Ion Approximation for Ambipolar Diffusion Calculations for Weakly Ionized Plasmas. <i>Astrophysical Journal</i> , 2006, 653, 1280-1291.	1.6	38
85	On the Hydrodynamic Interaction of Shock Waves with Interstellar Clouds. II. The Effect of Smooth Cloud Boundaries on Cloud Destruction and Cloud Turbulence. <i>Astrophysical Journal, Supplement Series</i> , 2006, 164, 477-505.	3.0	124
86	The Global Evolution of Giant Molecular Clouds. I. Model Formulation and Quasi-Equilibrium Behavior. <i>Astrophysical Journal</i> , 2006, 653, 361-382.	1.6	166
87	A General Theory of Turbulence-regulated Star Formation, from Spirals to Ultraluminous Infrared Galaxies. <i>Astrophysical Journal</i> , 2005, 630, 250-268.	1.6	794
88	How Protostellar Outflows Help Massive Stars Form. <i>Astrophysical Journal</i> , 2005, 618, L33-L36.	1.6	115
89	Cosmic-Ray Acceleration at the Forward Shock in Tycho's Supernova Remnant: Evidence from Chandra X-Ray Observations. <i>Astrophysical Journal</i> , 2005, 634, 376-389.	1.6	267
90	Bondi Accretion in the Presence of Vorticity. <i>Astrophysical Journal</i> , 2005, 618, 757-768.	1.6	65

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91	SEDs of massive protostars. Proceedings of the International Astronomical Union, 2005, 1, 276-281.	0.0	0
92	The formation of stars by gravitational collapse rather than competitive accretion. Nature, 2005, 438, 332-334.	13.7	120
93	An unsplit, cell-centered Godunov method for ideal MHD. Journal of Computational Physics, 2005, 203, 422-448.	1.9	48
94	Radiation pressure in massive star formation. Proceedings of the International Astronomical Union, 2005, 1, 231-236.	0.0	7
95	Farâ€infrared SEDs of Embedded Protostars and Dusty Galaxies. I. Theory for Spherical Sources. Astrophysical Journal, 2005, 631, 792-808.	1.6	38
96	Embedding Lagrangian Sink Particles in Eulerian Grids. Astrophysical Journal, 2004, 611, 399-412.	1.6	210
97	The Formation of the First Stars. I. Mass Infall Rates, Accretion Disk Structure, and Protostellar Evolution. Astrophysical Journal, 2004, 603, 383-400.	1.6	179
98	Mass Limits to Primordial Star Formation from Protostellar Feedback. AIP Conference Proceedings, 2003, , .	0.3	1
99	Neutral Atomic Phases of the Interstellar Medium in the Galaxy. Astrophysical Journal, 2003, 587, 278-311.	1.6	858
100	Time Dependence of the Ultraviolet Radiation Field in the Local Interstellar Medium. Astrophysical Journal, 2003, 584, 797-817.	1.6	91
101	The Formation of Massive Stars from Turbulent Cores. Astrophysical Journal, 2003, 585, 850-871.	1.6	791
102	Atomic Hydrogen Gas in Dark Matter Minihalos and the Compact Highâ€Velocity Clouds. Astrophysical Journal, Supplement Series, 2002, 143, 419-453.	3.0	124
103	Massive star formation in 100,000 years from turbulent and pressurized molecular clouds. Nature, 2002, 416, 59-61.	13.7	296
104	Fragmentation and Star Formation in Turbulent Cores. Symposium - International Astronomical Union, 2001, 200, 361-370.	0.1	5
105	Photoionization of Galactic Halo Gas by Old Supernova Remnants. Astrophysical Journal, 2000, 541, 218-233.	1.6	34
106	Shock Origin of High-Velocity Maser Emission from: Circumnuclear Disks. Highlights of Astronomy, 1998, 11, 968-969.	0.0	0
107	Shock Origin of High-Velocity Maser Emission from Circumnuclear Disks. International Astronomical Union Colloquium, 1998, 164, 217-218.	0.1	0
108	Doppler Shift Asymmetry in Highâ€Velocity Maser Emission from Shocks in Circumnuclear Disks. Astrophysical Journal, 1998, 494, 218-235.	1.6	55

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109	The Jeans Condition: A New Constraint on Spatial Resolution in Simulations of Isothermal Self-gravitational Hydrodynamics. <i>Astrophysical Journal</i> , 1997, 489, L179-L183.	1.6	756
110	The Galactic Distribution of OB Associations in Molecular Clouds. <i>Astrophysical Journal</i> , 1997, 476, 166-183.	1.6	297
111	The Local Bubble and Beyond: Summary. <i>International Astronomical Union Colloquium</i> , 1997, 166, 563-580.	0.1	1
112	CO and the Multiphase ISM. <i>Symposium - International Astronomical Union</i> , 1997, 170, 25-32.	0.1	0
113	Equipartition of energy for turbulent astrophysical fluids: Accounting for the unseen energy in molecular clouds. <i>Astrophysical Journal</i> , 1995, 439, 779.	1.6	48
114	Compton-Heated Winds from Accretion Disks. , 1994, , 332-335.		0
115	Photoionization-regulated star formation and the structure of molecular clouds. <i>Astrophysical Journal</i> , 1989, 345, 782.	1.6	453
116	Supernova Remnant Shocks in an Inhomogeneous Interstellar Medium. <i>International Astronomical Union Colloquium</i> , 1988, 101, 205-222.	0.1	1
117	X-ray Emission from Supernova Remnants in a Cloudy Medium. <i>Symposium - International Astronomical Union</i> , 1983, 101, 87-97.	0.1	2