Charles L H Hull

List of Publications by Year
in descending order

51 papers	1,692 citations	24 h-index (257450)	40 g-index (289244)
52 all docs	52 docs citations	52 times ranked	1307 citing authors

#	Article	IF	Citations
1	TADPOL: A 1.3 mm SURVEY OF DUST POLARIZATION IN STAR-FORMING CORES AND REGIONS. Astrophysical Journal, Supplement Series, 2014, 213, 13.	7.7	177
2	MISALIGNMENT OF MAGNETIC FIELDS AND OUTFLOWS IN PROTOSTELLAR CORES. Astrophysical Journal, 2013, 768, 159.	4.5	130
3	ALMA Reveals Transition of Polarization Pattern with Wavelength in HL Tauâ€™s Disk. Astrophysical Journal, 2017, 851, 55.	4.5	116
4	THE MAGNETIC FIELD MORPHOLOGY OF THE CLASS 0 PROTOSTAR L1157-mm. Astrophysical Journal Letters, 2013, 769, L15.	8.3	82
5	ALMA Observations of Dust Polarization and Molecular Line Emission from the Class 0 Protostellar Source Serpens SMM1. Astrophysical Journal, 2017, 847, 92.	4.5	74
6	ALMA Observations of Polarization from Dust Scattering in the IM Lup Protoplanetary Disk. Astrophysical Journal, 2018, 860, 82.	4.5	71
7	Interferometric Observations of Magnetic Fields in Forming Stars. Frontiers in Astronomy and Space Sciences, 2019, 6, .	2.8	71
8	Unveiling the Role of the Magnetic Field at the Smallest Scales of Star Formation. Astrophysical Journal Letters, 2017, 842, L9.	8.3	66
9	PROTOSTELLAR DISK FORMATION ENABLED BY WEAK, MISALIGNED MAGNETIC FIELDS. Astrophysical Journal Letters, 2013, 767, L11.	8.3	57
10	THE VLA NASCENT DISK AND MULTIPLICITY (VANDAM) SURVEY OF PERSEUS PROTOSTARS. RESOLVING THE SUB-ARCSECOND BINARY SYSTEM IN NGC 1333 IRAS2A. Astrophysical Journal, 2015, 798, 61.	4.5	44
11	Which molecule traces what: Chemical diagnostics of protostellar sources. Astronomy and Astrophysics, 2021, 655, A65.	5.1	43
12	ALMA SCIENCE VERIFICATION DATA: MILLIMETER CONTINUUM POLARIMETRY OF THE BRIGHT RADIO QUASAR 3C 286. Astrophysical Journal, 2016, 824, 132.	4.5	42
13	Dust polarized emission observations of NGC 6334. Astronomy and Astrophysics, 2021, 647, A78.	5.1	41
14	Gravity-driven Magnetic Field at â^¼1000 au Scales in High-mass Star Formation. Astrophysical Journal Letters, 2021, 915, L10.	8.3	41
15	DISPERSION OF MAGNETIC FIELDS IN MOLECULAR CLOUDS. IV. ANALYSIS OF INTERFEROMETRY DATA. Astrophysical Journal, 2016, 820, 38.	4.5	40
16	The JCMT BISTRO Survey: Magnetic Fields Associated with a Network of Filaments in NGC 1333. Astrophysical Journal, 2020, 899, 28.	4.5	39
17	Characterizing Magnetic Field Morphologies in Three Serpens Protostellar Cores with ALMA. Astrophysical Journal, 2019, 885, 106.	4.5	35
18	SYNTHETIC OBSERVATIONS OF MAGNETIC FIELDS IN PROTOSTELLAR CORES. Astrophysical Journal, 2017, 834, 201.	4.5	34

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19	INTERFEROMETRIC MAPPING OF MAGNETIC FIELDS: THE ALMA VIEW OF THE MASSIVE STAR-FORMING CLUMP W43-MM1. Astrophysical Journal Letters, 2016, 825, L15.	8.3	33
20	INTERFEROMETRIC UPPER LIMITS ON MILLIMETER POLARIZATION OF THE DISKS AROUND DG Tau, GM Aur, AND MWC 480. Astronomical Journal, 2013, 145, 115.	4.7	32
21	Chemical and kinematic structure of extremely high-velocity molecular jets in the Serpens Main star-forming region. Astronomy and Astrophysics, 2019, 632, A101.	5.1	30
22	Understanding the Origin of the Magnetic Field Morphology in the Wide-binary Protostellar System BHR 71. Astrophysical Journal, 2020, 892, 152.	4.5	29
23	JCMT POL-2 and BISTRO Survey Observations of Magnetic Fields in the L1689 Molecular Cloud. Astrophysical Journal, 2021, 907, 88.	4.5	29
24	AN EXTREMELY HIGH VELOCITY MOLECULAR JET SURROUNDED BY AN IONIZED CAVITY IN THE PROTOSTELLAR SOURCE SERPENS SMM1. Astrophysical Journal Letters, 2016, 823, L27.	8.3	28
25	Validating scattering-induced (sub)millimetre disc polarization through the spectral index, wavelength-dependent polarization pattern, and polarization spectrum: the case of HD 163296. Monthly Notices of the Royal Astronomical Society, 2020, 496, 169-181.	4.4	23
26	A statistical analysis of dust polarization properties in ALMA observations of Class 0 protostellar cores. Astronomy and Astrophysics, 2020, 644, A11.	5.1	23
27	Solving Grain Size Inconsistency between ALMA Polarization and VLA Continuum in the Ophiuchus IRS 48 Protoplanetary Disk. Astrophysical Journal, 2020, 900, 81.	4.5	23
28	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. Astrophysical Journal Letters, 2021, 912, L27.	8.3	21
29	The JCMT BISTRO Survey: The Distribution of Magnetic Field Strengths toward the OMC-1 Region. Astrophysical Journal, 2021, 913, 85.	4.5	19
30	The JCMT BISTRO Survey: Alignment between Outflows and Magnetic Fields in Dense Cores/Clumps. Astrophysical Journal, 2021, 907, 33.	4.5	17
31	TESTING MAGNETIC FIELD MODELS FOR THE CLASS 0 PROTOSTAR L1527. Astrophysical Journal, 2014, 797, 74.	4.5	16
32	Observations of Magnetic Fields Surrounding LkHÎ± 101 Taken by the BISTRO Survey with JCMT-POL-2. Astrophysical Journal, 2021, 908, 10.	4.5	16
33	B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main. Astrophysical Journal, 2022, 926, 163.	4.5	16
34	Magnetic Fields in Massive Star-forming Regions (MagMaR). I. Linear Polarized Imaging of the Ultracompact H ii Region G5.89â€“0.39. Astrophysical Journal, 2021, 913, 29.	4.5	13
35	The JCMT BISTRO Survey: An 850/450 Î¼m Polarization Study of NGC 2071IR in Orion B. Astrophysical Journal, 2021, 918, 85.	4.5	13
36	The Seven Most Massive Clumps in W43-Main as Seen by ALMA: Dynamical Equilibrium and Magnetic Fields. Astrophysical Journal, 2019, 884, 48.	4.5	12

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37	The Explosion in Orion-KL as Seen by Mosaicking the Magnetic Field with ALMA. Astrophysical Journal, 2021, 907, 94.	4.5	11
38	Characterizing the Accuracy of ALMA Linear-polarization Mosaics. Publications of the Astronomical Society of the Pacific, 2020, 132, 094501.	3.1	11
39	VLA Resolves Unexpected Radio Structures in the Perseus Cluster of Galaxies. Astrophysical Journal, 2021, 911, 56.	4.5	10
40	Discovery of Molecular-line Polarization in the Disk of TW Hya. Astrophysical Journal, 2021, 922, 139.	4.5	10
41	Magnetic Fields in Massive Star-forming Regions (MagMaR). II. Tomography through Dust and Molecular Line Polarization in NGC 6334I(N). Astrophysical Journal, 2021, 923, 204.	4.5	10
42	Magnetic Field Structure in Spheroidal Star-forming Clouds. II. Estimating Field Structure from Observed Maps. Astrophysical Journal, 2020, 896, 163.	4.5	8
43	Outflows, cores, and magnetic field orientations in W43-MM1 as seen by ALMA. Astronomy and Astrophysics, 2020, 640, A111.	5.1	7
44	Radio Linear Polarization of GRB Afterglows: Instrumental Systematics in ALMA Observations of GRB 171205A. Astrophysical Journal, 2020, 895, 64.	4.5	6
45	The JCMT BISTRO-2 Survey: The Magnetic Field in the Center of the Rosette Molecular Cloud. Astrophysical Journal, 2021, 913, 57.	4.5	6
46	Two-component Magnetic Field along the Line of Sight to the Perseus Molecular Cloud: Contribution of the Foreground Taurus Molecular Cloud. Astrophysical Journal, 2021, 914, 122.	4.5	5
47	The JCMT BISTRO Survey: Evidence for Pinched Magnetic Fields in Quiescent Filaments of NGC 1333. Astrophysical Journal Letters, 2021, 923, L9.	8.3	4
48	Polarization from Aligned Dust Grains in the Î² Pic Debris Disk. Astrophysical Journal, 2022, 930, 49.	4.5	4
49	Effects of Magnetic Field Orientations in Dense Cores on Gas Kinematics in Protostellar Envelopes. Astrophysical Journal, 2022, 930, 67.	4.5	3
50	880 Î¼m SMA POLARIZATION OBSERVATIONS OF THE QUASAR 3C 286. Astrophysical Journal, 2016, 830, 124.	4.5	1
51	High-dynamic-range 21 cm JVLA observations of the Perseus Cluster. Proceedings of the International Astronomical Union, 2018, 14, 53-54.	0.0	0