Archana Soam

List of Publications by Year
in descending order

71 papers	1,412 citations	331670 21 h-index	395702 33 g-index
74 all docs	74 docs citations	74 times ranked	849 citing authors

#	Article	IF	Citations
1	The JCMT BISTRO Survey: The Magnetic Field Strength in the Orion A Filament. Astrophysical Journal, 2017, 846, 122.	4.5	103
2	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. Astrophysical Journal, 2017, 842, 66.	4.5	79
3	A Holistic Perspective on the Dynamics of G035.39-00.33: The Interplay between Gas and Magnetic Fields. Astrophysical Journal, 2018, 859, 151.	4.5	57
4	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. Astrophysical Journal, 2018, 861, 65.	4.5	51
5	The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. Astrophysical Journal, Supplement Series, 2018, 234, 28.	7.7	50
6	A First Look at BISTRO Observations of the Ï•Oph-A core. Astrophysical Journal, 2018, 859, 4.	4.5	46
7	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€“ I. Survey description and a first look at G9.62+0.19. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2790-2820.	4.4	45
8	How Do Stars Gain Their Mass? A JCMT/SCUBA-2 Transient Survey of Protostars in Nearby Star-forming Regions. Astrophysical Journal, 2017, 849, 43.	4.5	42
9	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. Astrophysical Journal, 2019, 876, 42.	4.5	42
10	JCMT BISTRO Survey Observations of the Ophiuchus Molecular Cloud: Dust Grain Alignment Properties Inferred Using a Ricean Noise Model. Astrophysical Journal, 2019, 880, 27.	4.5	40
11	The JCMT BISTRO Survey: Magnetic Fields Associated with a Network of Filaments in NGC 1333. Astrophysical Journal, 2020, 899, 28.	4.5	39
12	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core Ï Ophiuchus C. Astrophysical Journal, 2019, 877, 43.	4.5	38
13	Magnetic Fields in the Infrared Dark Cloud G34.43+0.24. Astrophysical Journal, 2019, 883, 95.	4.5	38
14	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. Astrophysical Journal, 2019, 877, 88.	4.5	37
15	JCMT POL-2 and BISTRO Survey Observations of Magnetic Fields in the L1689 Molecular Cloud. Astrophysical Journal, 2021, 907, 88.	4.5	29
16	ATOMS: ALMA three-millimeter observations of massive star-forming regions â€“ III. Catalogues of candidate hot molecular cores and hyper/ultra compact Hâ€‰<scp>ii</scp> regions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2801-2818.	4.4	23
17	Magnetic field structure around cores with very low luminosity objects. Astronomy and Astrophysics, 2015, 573, A34.	5.1	23
18	Dust spectrum and polarisation at 850 Î¼m in the massive IRDC G035.39-00.33. Astronomy and Astrophysics, 2018, 620, A26.	5.1	22

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19	Planck Cold Clumps in the Î» Orionis Complex. II. Environmental Effects on Core Formation. Astrophysical Journal, Supplement Series, 2018, 236, 51.	7.7	22
20	SCOPE: SCUBA-2 Continuum Observations of Pre-protostellar Evolution â€“ survey description and compact source catalogue. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2895-2908.	4.4	22
21	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP). II. Survey Overview: A First Look at 1.3 mm Continuum Maps and Molecular Outflows. Astrophysical Journal, Supplement Series, 2020, 251, 20.	7.7	22
22	CHIMPS2: survey description and 12CO emission in the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5936-5951.	4.4	21
23	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
24	Magnetic fields in cometary globules â€“ IV. LBN 437. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1502-1512.	4.4	20
25	Multi-scale analysis of the Monoceros OB 1 star-forming region. Astronomy and Astrophysics, 2019, 631, A3.	5.1	20
26	The Properties of Planck Galactic Cold Clumps in the L1495 Dark Cloud. Astrophysical Journal, 2018, 856, 141.	4.5	19
27	The JCMT BISTRO Survey: The Distribution of Magnetic Field Strengths toward the OMC-1 Region. Astrophysical Journal, 2021, 913, 85.	4.5	19
28	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP). I. Detection of New Hot Corinos with the ACA. Astrophysical Journal, 2020, 898, 107.	4.5	18
29	The JCMT BISTRO Survey: Alignment between Outflows and Magnetic Fields in Dense Cores/Clumps. Astrophysical Journal, 2021, 907, 33.	4.5	17
30	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€“ V. Hierarchical fragmentation and gas dynamics in IRDC G034.43+00.24. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5009-5022.	4.4	17
31	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€“ IX. A pilot study towards IRDC G034.43+00.24 on multi-scale structures and gas kinematics. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4480-4489.	4.4	17
32	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Detection of Extremely High-density Compact Structure of Prestellar Cores and Multiple Substructures Within. Astrophysical Journal Letters, 2021, 907, L15.	8.3	16
33	Observations of Magnetic Fields Surrounding LkHÎ± 101 Taken by the BISTRO Survey with JCMT-POL-2. Astrophysical Journal, 2021, 908, 10.	4.5	16
34	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
35	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): A Hot Corino Survey toward Protostellar Cores in the Orion Cloud. Astrophysical Journal, 2022, 927, 218.	4.5	16
36	Magnetic field structure of ICÂ63 and ICÂ59 associated with Hâ€‰ii region Sh 185. Monthly Notices of the Royal Astronomical Society, 2017, 465, 559-568.	4.4	15

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37	Understanding Polarized Dust Emission from Ï•Ophiuchi A in Light of Grain Alignment and Disruption by Radiative Torques. Astrophysical Journal, 2021, 906, 115.	4.5	15
38	OMC-1 dust polarization in ALMA Band 7: diagnosing grain alignment mechanisms in the vicinity of Orion Source I. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3414-3433.	4.4	15
39	Magnetic field geometry of an unusual cometary cloud Gal 110-13. Astronomy and Astrophysics, 2016, 588, A45.	5.1	13
40	The JCMT BISTRO Survey: An 850/450 Î¼m Polarization Study of NGC 2071IR in Orion B. Astrophysical Journal, 2021, 918, 85.	4.5	13
41	TRAO Survey of Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO FUNS). I. Dynamics and Chemistry of L1478 in the California Molecular Cloud. Astrophysical Journal, 2019, 877, 114.	4.5	12
42	CO Outflow Survey of 68 Very Low Luminosity Objects: A Search for Proto-brown-dwarf Candidates. Astrophysical Journal, Supplement Series, 2019, 240, 18.	7.7	11
43	Multi-scale analysis of the Monoceros OB 1 star-forming region. Astronomy and Astrophysics, 2019, 631, L1.	5.1	11
44	Revisiting the Magnetic Field of the L183 Starless Core. Astrophysical Journal, 2020, 900, 181.	4.5	11
45	SOFIA Observations of 30 Doradus. I. Far-infrared Dust Polarization and Implications for Grain Alignment and Disruption by Radiative Torques. Astrophysical Journal, 2021, 923, 130.	4.5	11
46	Magnetic fields in multiple bright-rimmed clouds in different directions of Hâ€‰ii region ICâ€‰1396. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4782-4793.	4.4	10
47	Polarization of seven MBM clouds at high Galactic latitude. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4442-4458.	4.4	10
48	Probing the magnetic fields in L1415 and L1389. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2403-2418.	4.4	9
49	Compressed Magnetic Field in the Magnetically Regulated Global Collapsing Clump of G9.62+0.19. Astrophysical Journal Letters, 2018, 869, L5.	8.3	9
50	Interstellar Extinction, Polarization, and Grain Alignment in the Sh 2-185 (IC 59 and IC 63) Region. Astronomical Journal, 2021, 161, 149.	4.7	9
51	TRAO Survey of the Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO) Tj ETQq1 1 0.784314 rgBT /Overlock	4.5	9
52	High-resolution ALMA Study of the Proto-brown-dwarf Candidate L328-IRS. Astrophysical Journal, 2018, 865, 131.	4.5	8
53	Distance, magnetic field, and kinematics of the filamentary cloud LDN 1157. Astronomy and Astrophysics, 2020, 639, A133.	5.1	8
54	CS Depletion in Prestellar Cores. Astrophysical Journal, 2020, 891, 169.	4.5	8

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55	Modeling Rotational Disruption of Grains and Microwave Emission from Spinning Dust in AGB Envelopes. Astrophysical Journal, 2020, 893, 138.	4.5	8
56	First Sub-parsec-scale Mapping of Magnetic Fields in the Vicinity of a Very-low-luminosity Object, L1521F-IRS. Astrophysical Journal, 2019, 883, 9.	4.5	7
57	The JCMT BISTRO Survey: multiwavelength polarimetry of bright regions in NGC 2071 in the far-infrared/submillimetre range, with POL-2 and HAWC+. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1985-2002.	4.4	7
58	Grain Alignment in the Circumstellar Shell of IRC+10Â° 216. Astrophysical Journal, 2022, 931, 80.	4.5	7
59	FIRST OPTICAL AND NEAR-INFRARED POLARIMETRY OF A MOLECULAR CLOUD FORMING A PROTO-BROWN DWARF CANDIDATE. Astrophysical Journal Letters, 2015, 803, L20.	8.3	6
60	On the Collisional Disalignment of Dust Grains in Illuminated and Shaded Regions of IC 63. Astrophysical Journal, 2021, 907, 93.	4.5	6
61	The JCMT BISTRO-2 Survey: The Magnetic Field in the Center of the Rosette Molecular Cloud. Astrophysical Journal, 2021, 913, 57.	4.5	6
62	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Detection of a Dense SiO Jet in the Evolved Protostellar Phase. Astrophysical Journal, 2022, 925, 11.	4.5	6
63	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Evidence for a Molecular Jet Launched at an Unprecedented Early Phase of Protostellar Evolution. Astrophysical Journal, 2022, 931, 130.	4.5	6
64	Additional polarised standards in the fields of known bright standard stars. Astrophysics and Space Science, 2014, 350, 251-263.	1.4	5
65	ATOMS: ALMA three-millimeter observations of massive star-forming regions â€“ VII. A catalogue of SiO clumps from ACA observations. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3618-3635.	4.4	5
66	The role of magnetic fields in the stability and fragmentation of filamentary molecular clouds: two case studies at OMC-3 and OMC-4. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3024-3040.	4.4	5
67	The Magnetic Field in the Milky Way Filamentary Bone G47. Astrophysical Journal Letters, 2022, 926, L6.	8.3	4
68	Spatial Variation in Temperature and Density in the IC 63 PDR from H₂ Spectroscopy. Astrophysical Journal, 2021, 923, 107.	4.5	3
69	Submillimeter Continuum Variability in Planck Galactic Cold Clumps. Astrophysical Journal, Supplement Series, 2019, 242, 27.	7.7	0
70	On the photoevaporation, dust polarization and kinematics of two nebulae in Sh2-236. Research in Astronomy and Astrophysics, 2021, 21, 087.	1.7	0
71	Magnetic Fields in the Massive Star-forming Region GL 437. Research Notes of the AAS, 2021, 5, 241.	0.7	0