

Paul F Goldsmith

List of Publications by Year in descending order

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92
papers

3,823
citations

117625

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128289

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docs citations

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2961
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#	ARTICLE	IF	CITATIONS
1	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Evidence for a Molecular Jet Launched at an Unprecedented Early Phase of Protostellar Evolution. <i>Astrophysical Journal</i> , 2022, 931, 130.	4.5	6
2	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): How Do Dense Core Properties Affect the Multiplicity of Protostars?. <i>Astrophysical Journal</i> , 2022, 931, 158.	4.5	4
3	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): Detection of Extremely High-density Compact Structure of Prestellar Cores and Multiple Substructures Within. <i>Astrophysical Journal Letters</i> , 2021, 907, L15.	8.3	16
4	The CARMA-NRO Orion Survey Data Release. <i>Research Notes of the AAS</i> , 2021, 5, 55.	0.7	2
5	Dual Local Oscillator SIS Receiver for Simultaneous Observations of Water Isotopologues in the Solar System. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021, 11, 183-193.	3.1	1
6	The Core Mass Function in the Orion Nebula Cluster Region: What Determines the Final Stellar Masses?. <i>Astrophysical Journal Letters</i> , 2021, 910, L6.	8.3	15
7	Carbon-chain Chemistry versus Complex-organic-molecule Chemistry in Envelopes around Three Low-mass Young Stellar Objects in the Perseus Region. <i>Astrophysical Journal</i> , 2021, 910, 141.	4.5	6
8	The Transition from Diffuse Molecular Gas to Molecular Cloud Material in Taurus. <i>Astrophysical Journal</i> , 2021, 914, 59.	4.5	3
9	An ALMA study of outflow parameters of protoclusters: outflow feedback to maintain the turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 4316-4334.	4.4	9
10	Interstellar Cloud Conditions Based on 63 μm [O I] Emission and Absorption in W3. <i>Astrophysical Journal</i> , 2021, 916, 6.	4.5	10
11	Probing Polarization and the Role of Magnetic Fields in Cloud Destruction in the Keyhole Nebula. <i>Astrophysical Journal</i> , 2021, 917, 57.	4.5	1
12	How 50 Years of Technology Development Has Transformed Millimeter-THz Astronomical Spectroscopy. , 2021, , .		2
13	Planck Galactic Cold Clumps at High Galactic Latitude—a Study with CO Lines. <i>Astrophysical Journal</i> , 2021, 920, 103.	4.5	4
14	Chemical Compositions in the Vicinity of Protostars in Ophiuchus. <i>Astrophysical Journal</i> , 2021, 922, 152.	4.5	4
15	Applications of Machine Learning Algorithms in Processing Terahertz Spectroscopic Data. <i>Journal of Astronomical Instrumentation</i> , 2020, 09, .	1.5	2
16	Quantum Limited SIS Receiver Technology for the Detection of Water Isotopologue Emission From Comets. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020, 10, 569-582.	3.1	4
17	ALMA Observations Reveal No Preferred Outflow-filament and Outflow-magnetic Field Orientations in Protoclusters. <i>Astrophysical Journal</i> , 2020, 890, 44.	4.5	16
18	Molecular Oxygen in the Nearest QSO Mrk 231. <i>Astrophysical Journal</i> , 2020, 889, 129.	4.5	6

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19	Distribution of Water Vapor in Molecular Clouds. II. <i>Astrophysical Journal</i> , 2020, 892, 22.	4.5	5
20	HAWC+ Far-infrared Observations of the Magnetic Field Geometry in M51 and NGC 891. <i>Astronomical Journal</i> , 2020, 160, 167.	4.7	11
21	Rotation of Two Micron All Sky Survey Clumps in Molecular Clouds. <i>Astrophysical Journal</i> , 2020, 898, 122.	4.5	3
22	Herschel 158 μ m [C ii] Observations of α -CO-dark Gas in the Perseus Giant Molecular Cloud. <i>Astrophysical Journal</i> , 2020, 899, 23.	4.5	3
23	A SOFIA Survey of [C ii] in the Galaxy M51. II. [C ii] and CO Kinematics across the Spiral Arms. <i>Astrophysical Journal</i> , 2020, 900, 132.	4.5	6
24	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP). II. Survey Overview: A First Look at 1.3 mm Continuum Maps and Molecular Outflows. <i>Astrophysical Journal</i> , Supplement Series, 2020, 251, 20.	7.7	22
25	The CARMA-NRO Orion Survey: Core Emergence and Kinematics in the Orion A Cloud. <i>Astrophysical Journal</i> , 2019, 882, 45.	4.5	6
26	SOFIA Far-infrared Imaging Polarimetry of M82 and NGC 253: Exploring the Supergalactic Wind. <i>Astrophysical Journal Letters</i> , 2019, 870, L9.	8.3	24
27	The CARMA-NRO Orion Survey. <i>Astronomy and Astrophysics</i> , 2019, 623, A142.	5.1	45
28	An Ammonia Spectral Map of the L1495-B218 Filaments in the Taurus Molecular Cloud. II. CCS and HC _{7N} Chemistry and Three Modes of Star Formation in the Filaments. <i>Astrophysical Journal</i> , 2019, 871, 134.	4.5	19
29	HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1. <i>Astrophysical Journal</i> , 2019, 872, 187.	4.5	64
30	Electron Densities and Nitrogen Abundances in Ionized Gas Derived Using [N ii] Fine-structure and Hydrogen Recombination Lines. <i>Astrophysical Journal</i> , 2019, 886, 1.	4.5	8
31	Modeling Collisional Excitation of [O i] Fine Structure Line Emission from PDRs. I. Homogeneous Clouds. <i>Astrophysical Journal</i> , 2019, 887, 54.	4.5	11
32	Probing ISM Structure in Trumpler 14 and Carina I Using the Stratospheric Terahertz Observatory 2. <i>Astrophysical Journal</i> , 2019, 878, 120.	4.5	14
33	Magnetic Fields in the Infrared Dark Cloud G34.43+0.24. <i>Astrophysical Journal</i> , 2019, 883, 95.	4.5	38
34	Tracing the Formation of Molecular Clouds in a Low-metallicity Galaxy: An H i Narrow Self-absorption Survey of the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2019, 887, 242.	4.5	3
35	Where is OH and Does It Trace the Dark Molecular Gas (DMG)? <i>Astrophysical Journal</i> , Supplement Series, 2018, 235, 1.	7.7	42
36	The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. <i>Astrophysical Journal</i> , Supplement Series, 2018, 234, 28.	7.7	50

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37	A Proposed Heterodyne Receiver for the Origins Space Telescope. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 558-571.	3.1	23
38	A SOFIA Survey of [C ii] in the Galaxy M51. I. [C ii] as a Tracer of Star Formation. Astrophysical Journal Letters, 2018, 869, L30.	8.3	14
39	Compressed Magnetic Field in the Magnetically Regulated Global Collapsing Clump of G9.62+0.19. Astrophysical Journal Letters, 2018, 869, L5.	8.3	9
40	A Spherical Aberration Corrective Lens for Centimeter Through Submillimeter Wavelength Antennas. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2228-2231.	4.0	6
41	Catching the Birth of a Dark Molecular Cloud for the First Time. Astrophysical Journal, 2018, 867, 13.	4.5	13
42	The Connection between Different Tracers of the Diffuse Interstellar Medium: Kinematics. Astrophysical Journal, 2018, 858, 111.	4.5	3
43	The CARMA-NRO Orion Survey. Astrophysical Journal, Supplement Series, 2018, 236, 25.	7.7	64
44	The TOP-SCOPE Survey of PGCCs: PMO and SCUBA-2 Observations of 64 PGCCs in the Second Galactic Quadrant. Astrophysical Journal, Supplement Series, 2018, 236, 49.	7.7	10
45	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
46	Velocity-resolved [] Emission from Cold Diffuse Clouds in the Interstellar Medium. Astrophysical Journal, 2018, 856, 96.	4.5	10
47	Search for Interstellar LiH in the Milky Way. Astrophysical Journal, 2017, 837, 52.	4.5	2
48	Thermal Pressure in Diffuse H ₂ Gas Measured by Herschel Emission and FUSE UV H ₂ Absorption. Astrophysical Journal, 2017, 838, 165.	4.5	4
49	OH Survey along Sightlines of Galactic Observations of Terahertz C+. Astrophysical Journal, 2017, 839, 8.	4.5	14
50	Characterizing the Transition from Diffuse Atomic to Dense Molecular Clouds in the Magellanic Clouds with [C ii], [C i], and CO. Astrophysical Journal, 2017, 839, 107.	4.5	32
51	Electron Excitation of High Dipole Moment Molecules Re-examined. Astrophysical Journal, 2017, 841, 25.	4.5	43
52	Molecular Line Emission as a Tool for Galaxy Observations (LEGO). Astronomy and Astrophysics, 2017, 605, L5.	5.1	95
53	Sub-millimeter heterodyne focal-plane arrays for high-resolution astronomical spectroscopy. URSI Radio Science Bulletin, 2017, 2017, 53-73.	0.1	15
54	DISCOVERY OF AN EXTREMELY WIDE-ANGLE BIPOLAR OUTFLOW IN AFGL 5142. Astrophysical Journal, 2016, 824, 31.	4.5	31

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55	L1599B: CLOUD ENVELOPE AND C ⁺ EMISSION IN A REGION OF MODERATELY ENHANCED RADIATION FIELD. <i>Astrophysical Journal</i> , 2016, 824, 141.	4.5	10
56	GEOMETRY-INDEPENDENT DETERMINATION OF RADIAL DENSITY DISTRIBUTIONS IN MOLECULAR CLOUD CORES AND OTHER ASTRONOMICAL OBJECTS. <i>Astrophysical Journal</i> , 2016, 822, 10.	4.5	4
57	PLANCK COLD CLUMPS IN THE Î» ORIONIS COMPLEX. I. DISCOVERY OF AN EXTREMELY YOUNG CLASS 0 PROTOSTELLAR OBJECT AND A PROTO-BROWN DWARF CANDIDATE IN THE BRIGHT-RIMMED CLUMP PGCC G192.32â€“11.88. <i>Astrophysical Journal, Supplement Series</i> , 2016, 222, 7.	7.7	31
58	THE MAGNETIC FIELD OF L1544. I. NEAR-INFRARED POLARIMETRY AND THE NON-UNIFORM ENVELOPE. <i>Astrophysical Journal</i> , 2016, 833, 176.	4.5	11
59	STAR FORMATION LAWS IN BOTH GALACTIC MASSIVE CLUMPS AND EXTERNAL GALAXIES: EXTENSIVE STUDY WITH DUST CONTINUUM, HCN (4-3), AND CS (7-6). <i>Astrophysical Journal</i> , 2016, 829, 59.	4.5	38
60	EVOLUTION OF OH AND CO-DARK MOLECULAR GAS FRACTION ACROSS A MOLECULAR CLOUD BOUNDARY IN TAURUS. <i>Astrophysical Journal</i> , 2016, 819, 22.	4.5	104
61	AN AMMONIA SPECTRAL MAP OF THE L1495-B218 FILAMENTS IN THE TAURUS MOLECULAR CLOUD. I. PHYSICAL PROPERTIES OF FILAMENTS AND DENSE CORES. <i>Astrophysical Journal</i> , 2015, 805, 185.	4.5	44
62	OUTFLOWS AND BUBBLES IN TAURUS: STAR-FORMATION FEEDBACK SUFFICIENT TO MAINTAIN TURBULENCE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 20.	7.7	39
63	<i>HERSCHEL</i> GALACTIC PLANE SURVEY OF [N II] FINE STRUCTURE EMISSION. <i>Astrophysical Journal</i> , 2015, 814, 133.	4.5	51
64	<i>HERSCHEL</i> OBSERVATIONS OF INTERSTELLAR CHLORONIUM. II. DETECTIONS TOWARD G29.96-0.02, W49N, W51, AND W3(OH), AND DETERMINATIONS OF THE ORTHO-TO-PARA AND ³⁵ Cl/ ³⁷ Cl ISOTOPIC RATIOS. <i>Astrophysical Journal</i> , 2015, 807, 54.	4.5	20
65	PHOTON-DOMINATED REGION MODELING OF THE [C I], [C II], AND CO LINE EMISSION FROM A BOUNDARY IN THE TAURUS MOLECULAR CLOUD. <i>Astrophysical Journal</i> , 2014, 795, 26.	4.5	11
66	<i>HERSCHEL</i> HIFI OBSERVATIONS OF O ₂ TOWARD ORION: SPECIAL CONDITIONS FOR SHOCK ENHANCED EMISSION. <i>Astrophysical Journal</i> , 2014, 793, 111.	4.5	33
67	C ⁺ IN THE INTERSTELLAR MEDIUM: COLLISIONAL EXCITATION BY H ₂ REVISITED. <i>Astrophysical Journal</i> , 2014, 780, 183.	4.5	45
68	Argus: a 16-pixel millimeter-wave spectrometer for the Green Bank Telescope. <i>Proceedings of SPIE</i> , 2014, , ,	0.8	12
69	DIFFUSE MOLECULAR CLOUD DENSITIES FROM UV MEASUREMENTS OF CO ABSORPTION. <i>Astrophysical Journal</i> , 2013, 774, 134.	4.5	34
70	ALIGNMENT BETWEEN FLATTENED PROTOSTELLAR INFALL ENVELOPES AND AMBIENT MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2013, 770, 151.	4.5	90
71	COLLISIONAL EXCITATION OF THE [C II] FINE STRUCTURE TRANSITION IN INTERSTELLAR CLOUDS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 13.	7.7	144
72	<i>HERSCHEL</i> SEARCH FOR O ₂ TOWARD THE ORION BAR. <i>Astrophysical Journal</i> , 2012, 752, 26.	4.5	32

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73	<i>HERSCHEL</i> OBSERVATIONS OF INTERSTELLAR CHLORONIUM. <i>Astrophysical Journal</i> , 2012, 748, 37.	4.5	51
74	¹³CO CORES IN THE TAURUS MOLECULAR CLOUD. <i>Astrophysical Journal</i> , 2012, 760, 147.	4.5	40
75	<i>HERSCHEL</i> MEASUREMENTS OF MOLECULAR OXYGEN IN ORION. <i>Astrophysical Journal</i> , 2011, 737, 96.	4.5	138
76	A SURVEY OF H I NARROW SELF-ABSORPTION IN MOLECULAR CORES. <i>Astrophysical Journal</i> , 2010, 724, 1402-1429.	4.5	21
77	THE RELATION BETWEEN GAS AND DUST IN THE TAURUS MOLECULAR CLOUD. <i>Astrophysical Journal</i> , 2010, 721, 686-708.	4.5	191
78	MOLECULAR HYDROGEN EMISSION FROM THE BOUNDARIES OF THE TAURUS MOLECULAR CLOUD. <i>Astrophysical Journal</i> , 2010, 715, 1370-1382.	4.5	33
79	Large-scale Structure of the Molecular Gas in Taurus Revealed by High Linear Dynamic Range Spectral Line Mapping. <i>Astrophysical Journal</i> , 2008, 680, 428-445.	4.5	364
80	The Five College Radio Astronomy Observatory CO Mapping Survey of the Taurus Molecular Cloud. <i>Astrophysical Journal</i> , Supplement Series, 2008, 177, 341-361.	7.7	96
81	An Improved Technique for Measurement of Cold H ₂ in Molecular Cloud Cores. <i>Astrophysical Journal</i> , 2008, 689, 276-289.	4.5	28
82	Probing Pre-Protostellar Cores with Formaldehyde. <i>Astrophysical Journal</i> , 2004, 614, 252-266.	4.5	80
83	Submillimeter Wave Astronomy Satellite and Arecibo Observations of H ₂ O and OH in a Diffuse Cloud along the Line of Sight to W51. <i>Astrophysical Journal</i> , 2002, 580, 278-284.	4.5	44
84	Molecular Depletion and Thermal Balance in Dark Cloud Cores. <i>Astrophysical Journal</i> , 2001, 557, 736-746.	4.5	357
85	The [ITAL]Submillimeter Wave Astronomy Satellite[/ITAL]: Science Objectives and Instrument Description. <i>Astrophysical Journal</i> , 2000, 539, L77-L85.	4.5	164
86	Origin and Evolution of the Cepheus Bubble. <i>Astrophysical Journal</i> , 1998, 507, 241-253.	4.5	76
87	Physical Conditions in Quiescent Dark Cloud Cores Determined from Multitransition Observations of CCS. <i>Astrophysical Journal</i> , 1997, 477, 241-264.	4.5	49
88	Chemical and Physical Gradients along the OMC-1 Ridge. <i>Astrophysical Journal</i> , 1997, 482, 245-266.	4.5	141
89	The Large-Scale Structure, Kinematics, and Evolution of IC 1396. <i>Astrophysical Journal</i> , 1995, 447, 721.	4.5	72
90	CH ₃ C ₂ H as a temperature probe in dense giant molecular cloud cores. <i>Astrophysical Journal</i> , 1994, 431, 674.	4.5	69

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91	A survey of IRAS point sources in Taurus for high-velocity molecular gas. <i>Astrophysical Journal</i> , 1987, 321, 370.	4.5	41
92	The magnetic evolution of the Taurus molecular clouds. I - Large-scale properties. <i>Astrophysical Journal</i> , 1987, 321, 855.	4.5	85