

Jennifer B Bergner

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,671
citations

236925

25
h-index

289244

40
g-index

52
all docs

52
docs citations

52
times ranked

917
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecules with ALMA at Planet-forming Scales (MAPS). I. Program Overview and Highlights. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 1.	7.7	117
2	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 5.	7.7	87
3	A Survey of CH ₃ CN and HC ₃ N in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2018, 857, 69.	4.5	82
4	N ₂ AND CO DESORPTION ENERGIES FROM WATER ICE. <i>Astrophysical Journal Letters</i> , 2016, 816, L28.	8.3	76
5	A Survey of C ₂ H, HCN, and C ¹⁸ O in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 876, 25.	4.5	66
6	The Distribution and Excitation of CH ₃ CN in a Solar Nebula Analog. <i>Astrophysical Journal</i> , 2018, 859, 131.	4.5	65
7	Sulfur Chemistry in Protoplanetary Disks: CS and H ₂ CS. <i>Astrophysical Journal</i> , 2019, 876, 72.	4.5	62
8	Molecules with ALMA at Planet-forming Scales (MAPS). IV. Emission Surfaces and Vertical Distribution of Molecules. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 4.	7.7	58
9	Molecules with ALMA at Planet-forming Scales (MAPS). II. CLEAN Strategies for Synthesizing Images of Molecular Line Emission in Protoplanetary Disks. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 2.	7.7	58
10	Molecules with ALMA at Planet-forming Scales (MAPS). III. Characteristics of Radial Chemical Substructures. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 3.	7.7	57
11	Molecules with ALMA at Planet-forming Scales (MAPS). XIV. Revealing Disk Substructures in Multiwavelength Continuum Emission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 14.	7.7	56
12	Molecules with ALMA at Planet-forming Scales (MAPS). XVIII. Kinematic Substructures in the Disks of HD 163296 and MWC 480. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 18.	7.7	51
13	Complex Organic Molecules toward Embedded Low-mass Protostars $\hat{\text{—}}$. <i>Astrophysical Journal</i> , 2017, 841, 120.	4.5	49
14	An ALMA Survey of H ₂ CO in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 890, 142.	4.5	47
15	Molecules with ALMA at Planet-forming Scales (MAPS). VII. Substellar O/H and C/H and Superstellar C/O in Planet-feeding Gas. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 7.	7.7	40
16	An Unbiased ALMA Spectral Survey of the LkCa 15 and MWC 480 Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 893, 101.	4.5	38
17	Molecules with ALMA at Planet-forming Scales (MAPS). VI. Distribution of the Small Organics HCN, C ₂ H, and H ₂ CO. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 6.	7.7	37
18	Methanol Formation via Oxygen Insertion Chemistry in Ices. <i>Astrophysical Journal</i> , 2017, 845, 29.	4.5	35

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19	The TW Hya Rosetta Stone Project. III. Resolving the Gaseous Thermal Profile of the Disk. <i>Astrophysical Journal</i> , 2021, 908, 8.	4.5	35
20	An Evolutionary Study of Volatile Chemistry in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 898, 97.	4.5	34
21	Molecules with ALMA at Planet-forming Scales (MAPS). XIX. Spiral Arms, a Tail, and Diffuse Structures Traced by CO around the GM Aur Disk. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 19.	7.7	33
22	Molecules with ALMA at Planet-forming Scales (MAPS). IX. Distribution and Properties of the Large Organic Molecules HC ₃ N, CH ₃ CN, and c-C ₃ H ₂ . <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 9.	7.7	30
23	Molecules with ALMA at Planet-forming Scales (MAPS). XII. Inferring the C/O and S/H Ratios in Protoplanetary Disks with Sulfur Molecules. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 12.	7.7	30
24	Oxygen Atom Reactions with C ₂ H ₆ , C ₂ H ₄ , and C ₂ H ₂ in Ices. <i>Astrophysical Journal</i> , 2019, 874, 115.	4.5	27
25	Detection of Phosphorus-bearing Molecules toward a Solar-type Protostar. <i>Astrophysical Journal Letters</i> , 2019, 884, L36.	8.3	27
26	Molecules with ALMA at Planet-forming Scales (MAPS). XI. CN and HCN as Tracers of Photochemistry in Disks. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 11.	7.7	25
27	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO ⁺ and Disk Ionization Structure. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 13.	7.7	24
28	Organic Complexity in Protostellar Disk Candidates. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1564-1575.	2.7	21
29	Molecules with ALMA at Planet-forming Scales (MAPS). XV. Tracing Protoplanetary Disk Structure within 20 au. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 15.	7.7	21
30	CO Diffusion and Desorption Kinetics in CO ₂ Ices. <i>Astrophysical Journal</i> , 2018, 852, 75.	4.5	20
31	Molecules with ALMA at Planet-forming Scales (MAPS). XVI. Characterizing the Impact of the Molecular Wind on the Evolution of the HD 163296 System. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 16.	7.7	20
32	The TW Hya Rosetta Stone Project. II. Spatially Resolved Emission of Formaldehyde Hints at Low-temperature Gas-phase Formation. <i>Astrophysical Journal</i> , 2021, 906, 111.	4.5	19
33	Molecules with ALMA at Planet-forming Scales (MAPS). XVII. Determining the 2D Thermal Structure of the HD 163296 Disk. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 17.	7.7	19
34	KINETICS AND MECHANISMS OF THE ACID-BASE REACTION BETWEEN NH ₃ AND HCOOH IN INTERSTELLAR ICE ANALOGS. <i>Astrophysical Journal</i> , 2016, 829, 85.	4.5	18
35	Desorption Kinetics and Binding Energies of Small Hydrocarbons. <i>Astrophysical Journal</i> , 2019, 875, 73.	4.5	17
36	Carbon Chain Molecules toward Embedded Low-mass Protostars ⁺ . <i>Astrophysical Journal</i> , 2018, 863, 88.	4.5	16

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37	The TW Hya Rosetta Stone Project. I. Radial and Vertical Distributions of DCN and DCO ⁺ . <i>Astronomical Journal</i> , 2021, 161, 38.	4.7	16
38	ON THE INFERENCE OF THE COSMIC-RAY IONIZATION RATE $\hat{\eta}$ FROM THE HCO ⁺ -to-DCO ⁺ ABUNDANCE RATIO: THE EFFECT OF NUCLEAR SPIN. <i>Astrophysical Journal</i> , 2016, 830, 151.	4.5	15
39	If you like C/O variations, you should have put a ring on it. <i>Astronomy and Astrophysics</i> , 2021, 653, L9.	5.1	15
40	Molecules with ALMA at Planet-forming Scales (MAPS). X. Studying Deuteration at High Angular Resolution toward Protoplanetary Disks. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 10.	7.7	15
41	A New, Rotating Hot Corino in Serpens. <i>Astrophysical Journal</i> , 2019, 880, 130.	4.5	14
42	Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. <i>Astrophysical Journal</i> , 2021, 908, 42.	4.5	14
43	Ice Inheritance in Dynamical Disk Models. <i>Astrophysical Journal</i> , 2021, 919, 45.	4.5	12
44	Chemical Feedback of Pebble Growth: Impacts on CO depletion and C/O ratios. <i>Astrophysical Journal</i> , 2022, 927, 206.	4.5	11
45	The TW Hya Rosetta Stone Project IV: A Hydrocarbon-rich Disk Atmosphere. <i>Astrophysical Journal</i> , 2021, 911, 29.	4.5	10
46	Hot Corino Chemistry in the Class I Binary Source Ser-emb 11. <i>Astrophysical Journal</i> , 2021, 923, 155.	4.5	8
47	HCN Snow Lines in Protoplanetary Disks: Constraints from Ice Desorption Experiments. <i>Astrophysical Journal</i> , 2022, 933, 206.	4.5	7
48	An Atacama Large Millimeter/submillimeter Array Survey of Chemistry in Disks around M4–M5 Stars. <i>Astrophysical Journal</i> , 2021, 911, 150.	4.5	6
49	Astrochemistry With the Orbiting Astronomical Satellite for Investigating Stellar Systems. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	2.8	5
50	First Images of Phosphorus Molecules toward a Protosolar Analog. <i>Astrophysical Journal</i> , 2022, 927, 7.	4.5	4