

# 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	Astrochemistry With the Orbiting Astronomical Satellite for Investigating Stellar Systems. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	2.8	5
2	Chemical Feedback of Pebble Growth: Impacts on CO depletion and C/O ratios. <i>Astrophysical Journal</i> , 2022, 927, 206.	4.5	11
3	First Images of Phosphorus Molecules toward a Protosolar Analog. <i>Astrophysical Journal</i> , 2022, 927, 7.	4.5	4
4	HCN Snow Lines in Protoplanetary Disks: Constraints from Ice Desorption Experiments. <i>Astrophysical Journal</i> , 2022, 933, 206.	4.5	7
5	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
6	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
7	Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. <i>Astrophysical Journal</i> , 2021, 908, 42.	4.5	14
8	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
9	The TW Hya Rosetta Stone Project IV: A Hydrocarbon-rich Disk Atmosphere. <i>Astrophysical Journal</i> , 2021, 911, 29.	4.5	10
10	Ice Inheritance in Dynamical Disk Models. <i>Astrophysical Journal</i> , 2021, 919, 45.	4.5	12
11	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
12	The TW Hya Rosetta Stone Project. I. Radial and Vertical Distributions of DCN and DCO <sup>+</sup> . <i>Astronomical Journal</i> , 2021, 161, 38.	4.7	16
13	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
14	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
15	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
16	Molecules with ALMA at Planet-forming Scales (MAPS). IX. Distribution and Properties of the Large Organic Molecules HC <sub>3</sub> N, CH <sub>3</sub> CN, and c-C <sub>3</sub> H <sub>2</sub> . <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 9.	7.7	30
17	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
18	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

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19	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
20	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
21	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
22	Molecules with ALMA at Planet-forming Scales (MAPS). VI. Distribution of the Small Organics HCN, C <sub>2</sub> H, and H <sub>2</sub> CO. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 6.	7.7	37
23	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
24	Molecules with ALMA at Planet-forming Scales (MAPS). V. CO Gas Distributions. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 5.	7.7	87
25	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
26	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
27	Molecules with ALMA at Planet-forming Scales (MAPS). XIII. HCO <sup>+</sup> and Disk Ionization Structure. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 13.	7.7	24
28	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
29	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
30	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
31	Hot Corino Chemistry in the Class I Binary Source Ser-emb 11. <i>Astrophysical Journal</i> , 2021, 923, 155.	4.5	8
32	An Unbiased ALMA Spectral Survey of the LkCa 15 and MWC 480 Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 893, 101.	4.5	38
33	An ALMA Survey of H <sub>2</sub> CO in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 890, 142.	4.5	47
34	An Evolutionary Study of Volatile Chemistry in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 898, 97.	4.5	34
35	Sulfur Chemistry in Protoplanetary Disks: CS and H <sub>2</sub> CS. <i>Astrophysical Journal</i> , 2019, 876, 72.	4.5	62
36	Organic Complexity in Protostellar Disk Candidates. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1564-1575.	2.7	21

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37	A New, Rotating Hot Corino in Serpens. <i>Astrophysical Journal</i> , 2019, 880, 130.	4.5	14
38	A Survey of C <sub>2</sub> H, HCN, and C <sup>18</sup> O in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 876, 25.	4.5	66
39	Desorption Kinetics and Binding Energies of Small Hydrocarbons. <i>Astrophysical Journal</i> , 2019, 875, 73.	4.5	17
40	Oxygen Atom Reactions with C <sub>2</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>4</sub> , and C <sub>2</sub> H <sub>2</sub> in Ices. <i>Astrophysical Journal</i> , 2019, 874, 115.	4.5	27
41	Detection of Phosphorus-bearing Molecules toward a Solar-type Protostar. <i>Astrophysical Journal Letters</i> , 2019, 884, L36.	8.3	27
42	A Survey of CH <sub>3</sub> CN and HC <sub>3</sub> N in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2018, 857, 69.	4.5	82
43	CO Diffusion and Desorption Kinetics in CO <sub>2</sub> Ices. <i>Astrophysical Journal</i> , 2018, 852, 75.	4.5	20
44	The Distribution and Excitation of CH <sub>3</sub> CN in a Solar Nebula Analog. <i>Astrophysical Journal</i> , 2018, 859, 131.	4.5	65
45	Carbon Chain Molecules toward Embedded Low-mass Protostars <sup>+</sup> . <i>Astrophysical Journal</i> , 2018, 863, 88.	4.5	16
46	Complex Organic Molecules toward Embedded Low-mass Protostars <sup>+</sup> . <i>Astrophysical Journal</i> , 2017, 841, 120.	4.5	49
47	Methanol Formation via Oxygen Insertion Chemistry in Ices. <i>Astrophysical Journal</i> , 2017, 845, 29.	4.5	35
48	KINETICS AND MECHANISMS OF THE ACID-BASE REACTION BETWEEN NH <sub>3</sub> AND HCOOH IN INTERSTELLAR ICE ANALOGS. <i>Astrophysical Journal</i> , 2016, 829, 85.	4.5	18
49	ON THE INFERENCE OF THE COSMIC-RAY IONIZATION RATE $\hat{\eta}$ FROM THE HCO <sup>+</sup> -to-DCO <sup>+</sup> ABUNDANCE RATIO: THE EFFECT OF NUCLEAR SPIN. <i>Astrophysical Journal</i> , 2016, 830, 151.	4.5	15
50	N <sub>2</sub> AND CO DESORPTION ENERGIES FROM WATER ICE. <i>Astrophysical Journal Letters</i> , 2016, 816, L28.	8.3	76