

# Emma Barton

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/452587/publications.pdf>

Version: 2024-02-01

17  
papers

1,244  
citations

840776

11  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

1309  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ExoMol database: Molecular line lists for exoplanet and other hot atmospheres. <i>Journal of Molecular Spectroscopy</i> , 2016, 327, 73-94.	1.2	364
2	DETECTION OF AN ATMOSPHERE AROUND THE SUPER-EARTH 55 CANCRI E. <i>Astrophysical Journal</i> , 2016, 820, 99.	4.5	202
3	TAU-REX I: A NEXT GENERATION RETRIEVAL CODE FOR EXOPLANETARY ATMOSPHERES. <i>Astrophysical Journal</i> , 2015, 802, 107.	4.5	198
4	$\mathcal{T}$ -REx. II. RETRIEVAL OF EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2015, 813, 13.	4.5	124
5	ExoMol line lists – II. The ro-vibrational spectrum of SiO. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1469-1475.	4.4	93
6	ExoMol molecular line lists V: the ro-vibrational spectra of NaCl and KCl. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 1821-1829.	4.4	45
7	Pressure-dependent water absorption cross sections for exoplanets and other atmospheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 453-460.	2.3	41
8	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
9	ExoMol molecular line lists – XII. Line lists for eight isotopologues of CS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1931-1939.	4.4	28
10	The ExoMol pressure broadening diet: H <sub>2</sub> and He line-broadening parameters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 490-495.	2.3	26
11	A near infrared line list for NH <sub>3</sub> : Analysis of a Kitt Peak spectrum after 35 years. <i>Journal of Molecular Spectroscopy</i> , 2016, 325, 7-12.	1.2	21
12	High-resolution absorption measurements of NH <sub>3</sub> at high temperatures: 500–2100 cm <sup>-1</sup> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 167, 126-134.	2.3	20
13	A case-study of land-atmosphere coupling during monsoon onset in northern India. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2891-2905.	2.7	14
14	High-resolution absorption measurements of NH <sub>3</sub> at high temperatures: 2100–5500 cm <sup>-1</sup> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 60-65.	2.3	11
15	Absorption spectra of ammonia near 1.4 μm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 392-397.	2.3	11
16	“Late-stage” deforestation enhances storm trends in coastal West Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	10
17	Molecular line shape parameters for exoplanetary atmospheric applications. <i>Journal of Physics: Conference Series</i> , 2017, 810, 012010.	0.4	5