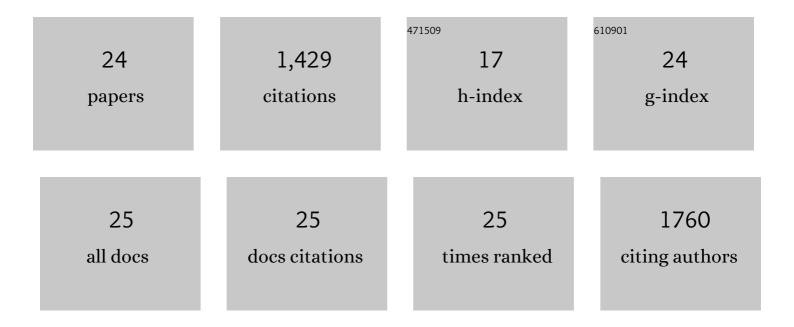
Clara Sousa-Silva

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6153779/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	The ExoMol database: Molecular line lists for exoplanet and other hot atmospheres. Journal of Molecular Spectroscopy, 2016, 327, 73-94.	1.2	364
2	The TESS Objects of Interest Catalog from the TESS Prime Mission. Astrophysical Journal, Supplement Series, 2021, 254, 39.	7.7	190
3	Phosphine gas in the cloud decks of Venus. Nature Astronomy, 2021, 5, 655-664.	10.1	174
4	ExoMol line lists – VII. The rotation–vibration spectrum of phosphine up to 1500ÂK. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2337-2347.	4.4	99
5	Phosphine as a Biosignature Gas in Exoplanet Atmospheres. Astrobiology, 2020, 20, 235-268.	3.0	87
6	High temperature partition functions and thermodynamic data for ammonia and phosphine. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 142, 66-74.	2.3	48
7	MARVEL Analysis of the Measured High-resolution Rovibronic Spectra of ⁴⁸ Ti ¹⁶ O. Astrophysical Journal, Supplement Series, 2017, 228, 15.	7.7	48
8	A computed room temperature line list for phosphine. Journal of Molecular Spectroscopy, 2013, 288, 28-37.	1.2	45
9	Photochemistry of Anoxic Abiotic Habitable Planet Atmospheres: Impact of New H ₂ O Cross Sections. Astrophysical Journal, 2020, 896, 148.	4.5	45
10	Phosphine on Venus Cannot Be Explained by Conventional Processes. Astrobiology, 2021, 21, 1277-1304.	3.0	44
11	MARVEL analysis of the measured high-resolution rovibrational spectra of C2H2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 42-55.	2.3	41
12	New environmental model for thermodynamic ecology of biological phosphine production. Science of the Total Environment, 2019, 658, 521-536.	8.0	41
13	Trivalent Phosphorus and Phosphines as Components of Biochemistry in Anoxic Environments. Astrobiology, 2019, 19, 885-902.	3.0	28
14	Reply to: No evidence of phosphine in the atmosphere of Venus from independent analyses. Nature Astronomy, 2021, 5, 636-639.	10.1	24
15	Detectability of biosignatures on LHS 1140 b. Astronomy and Astrophysics, 2021, 647, A48.	5.1	20
16	Molecular simulations for the spectroscopic detection of atmospheric gases. Physical Chemistry Chemical Physics, 2019, 21, 18970-18987.	2.8	18
17	Original Research By Young Twinkle Students (ORBYTS): when can students start performing original research?. Physics Education, 2018, 53, 015020.	0.5	17
18	Assessment of Isoprene as a Possible Biosignature Gas in Exoplanets with Anoxic Atmospheres. Astrobiology, 2021, 21, 765-792.	3.0	16

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#	Article	IF	CITATIONS
19	Exocomets from a Solar System Perspective. Publications of the Astronomical Society of the Pacific, 2020, 132, 101001.	3.1	16
20	Communication: Tunnelling splitting in the phosphine molecule. Journal of Chemical Physics, 2016, 145, 091102.	3.0	15
21	Computational Infrared Spectroscopy of 958 Phosphorus-Bearing Molecules. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	10
22	Low levels of sulphur dioxide contamination of Venusian phosphine spectra. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2994-3001.	4.4	10
23	Venusian phosphine: a â€~wow!' signal in chemistry?. Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-6.	1.6	8
24	Crystal structure and vibrational spectra of hydrazinium(+1) fluorocadmate(II). Monatshefte Für Chemie, 2013, 144, 1455-1459.	1.8	3