

Clara Sousa-Silva

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,429
citations

471509

17
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Low levels of sulphur dioxide contamination of Venusian phosphine spectra. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2994-3001.	4.4	10
2	Phosphine gas in the cloud decks of Venus. Nature Astronomy, 2021, 5, 655-664.	10.1	174
3	Detectability of biosignatures on LHS 1140 b. Astronomy and Astrophysics, 2021, 647, A48.	5.1	20
4	Assessment of Isoprene as a Possible Biosignature Gas in Exoplanets with Anoxic Atmospheres. Astrobiology, 2021, 21, 765-792.	3.0	16
5	Computational Infrared Spectroscopy of 958 Phosphorus-Bearing Molecules. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	10
6	The TESS Objects of Interest Catalog from the TESS Prime Mission. Astrophysical Journal, Supplement Series, 2021, 254, 39.	7.7	190
7	Phosphine on Venus Cannot Be Explained by Conventional Processes. Astrobiology, 2021, 21, 1277-1304.	3.0	44
8	Reply to: No evidence of phosphine in the atmosphere of Venus from independent analyses. Nature Astronomy, 2021, 5, 636-639.	10.1	24
9	Phosphine as a Biosignature Gas in Exoplanet Atmospheres. Astrobiology, 2020, 20, 235-268.	3.0	87
10	Photochemistry of Anoxic Abiotic Habitable Planet Atmospheres: Impact of New H ₂ O Cross Sections. Astrophysical Journal, 2020, 896, 148.	4.5	45
11	Exocomets from a Solar System Perspective. Publications of the Astronomical Society of the Pacific, 2020, 132, 101001.	3.1	16
12	Molecular simulations for the spectroscopic detection of atmospheric gases. Physical Chemistry Chemical Physics, 2019, 21, 18970-18987.	2.8	18
13	New environmental model for thermodynamic ecology of biological phosphine production. Science of the Total Environment, 2019, 658, 521-536.	8.0	41
14	Trivalent Phosphorus and Phosphines as Components of Biochemistry in Anoxic Environments. Astrobiology, 2019, 19, 885-902.	3.0	28
15	Original Research By Young Twinkle Students (ORBYTS): when can students start performing original research?. Physics Education, 2018, 53, 015020.	0.5	17
16	MARVEL analysis of the measured high-resolution rovibrational spectra of C ₂ H ₂ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 42-55.	2.3	41
17	MARVEL Analysis of the Measured High-resolution Rovibronic Spectra of ⁴⁸ Ti ¹⁶ O. Astrophysical Journal, Supplement Series, 2017, 228, 15.	7.7	48
18	Communication: Tunnelling splitting in the phosphine molecule. Journal of Chemical Physics, 2016, 145, 091102.	3.0	15

#	ARTICLE	IF	CITATIONS
19	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
20	ExoMol line lists – VII. The rotation–vibration spectrum of phosphine up to 1500 Å. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2337-2347.	4.4	99
21	High temperature partition functions and thermodynamic data for ammonia and phosphine. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 142, 66-74.	2.3	48
22	Crystal structure and vibrational spectra of hydrazinium(+1) fluorocadmate(II). <i>Monatshefte für Chemie</i> , 2013, 144, 1455-1459.	1.8	3
23	A computed room temperature line list for phosphine. <i>Journal of Molecular Spectroscopy</i> , 2013, 288, 28-37.	1.2	45
24	Venusian phosphine: a “wow!” signal in chemistry?. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 0, , 1-6.	1.6	8