

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	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	The TESS Objects of Interest Catalog from the TESS Prime Mission. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 39.	7.7	190
3	Phosphine gas in the cloud decks of Venus. <i>Nature Astronomy</i> , 2021, 5, 655-664.	10.1	174
4	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
5	Phosphine as a Biosignature Gas in Exoplanet Atmospheres. <i>Astrobiology</i> , 2020, 20, 235-268.	3.0	87
6	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
7	MARVEL Analysis of the Measured High-resolution Rovibronic Spectra of $^{48}\text{Ti}^{16}\text{O}$. <i>Astrophysical Journal, Supplement Series</i> , 2017, 228, 15.	7.7	48
8	A computed room temperature line list for phosphine. <i>Journal of Molecular Spectroscopy</i> , 2013, 288, 28-37.	1.2	45
9	Photochemistry of Anoxic Abiotic Habitable Planet Atmospheres: Impact of New H_2O Cross Sections. <i>Astrophysical Journal</i> , 2020, 896, 148.	4.5	45
10	Phosphine on Venus Cannot Be Explained by Conventional Processes. <i>Astrobiology</i> , 2021, 21, 1277-1304.	3.0	44
11	MARVEL analysis of the measured high-resolution rovibrational spectra of C_2H_2 . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 204, 42-55.	2.3	41
12	New environmental model for thermodynamic ecology of biological phosphine production. <i>Science of the Total Environment</i> , 2019, 658, 521-536.	8.0	41
13	Trivalent Phosphorus and Phosphines as Components of Biochemistry in Anoxic Environments. <i>Astrobiology</i> , 2019, 19, 885-902.	3.0	28
14	Reply to: No evidence of phosphine in the atmosphere of Venus from independent analyses. <i>Nature Astronomy</i> , 2021, 5, 636-639.	10.1	24
15	Detectability of biosignatures on LHS 1140 b. <i>Astronomy and Astrophysics</i> , 2021, 647, A48.	5.1	20
16	Molecular simulations for the spectroscopic detection of atmospheric gases. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18970-18987.	2.8	18
17	Original Research By Young Twinkle Students (ORBYTS): when can students start performing original research?. <i>Physics Education</i> , 2018, 53, 015020.	0.5	17
18	Assessment of Isoprene as a Possible Biosignature Gas in Exoplanets with Anoxic Atmospheres. <i>Astrobiology</i> , 2021, 21, 765-792.	3.0	16

#	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 “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