Victoria MuÃ±oz-Iglesias

List of Publications by Year
in descending order

20 papers	179 citations	1163117 8 h-index	1125743 13 g-index
28 all docs	28 docs citations	28 times ranked	292 citing authors

#	Article	IF	Citations
1	pH and Salinity Evolution of Europa's Brines: Raman Spectroscopy Study of Fractional Precipitation at 1 and 300 Bar. Astrobiology, 2013, 13, 693-702.	3.0	29
2	Quantitative Raman spectroscopy as a tool to study the kinetics and formation mechanism of carbonates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 116, 26-30.	3.9	21
3	Rapid Formation of Clathrate Hydrate From Liquid Ethane and Water Ice on Titan. Geophysical Research Letters, 2020, 47, e2019GL086265.	4.0	19
4	Constraining the preservation of organic compounds in Mars analog nontronites after exposure to acid and alkaline fluids. Scientific Reports, 2020, 10, 15097.	3.3	15
5	Fingerprinting molecular and isotopic biosignatures on different hydrothermal scenarios of Iceland, an acidic and sulfur-rich Mars analog. Scientific Reports, 2020, 10, 21196.	3.3	15
6	Conspicuous assemblages of hydrated minerals from the H2Oâ€“MgSO4â€“CO2 system on Jupiterâ€™s Europa satellite. Geochimica Et Cosmochimica Acta, 2014, 125, 466-475.	3.9	14
7	Raman spectroscopy as a tool to study the solubility of CO2 in magnesium sulphate brines: application to the fluids of Europa's cryomagmatic reservoirs. European Journal of Mineralogy, 2014, 25, 735-743.	1.3	13
8	Phase Diagram of the Ternary Waterâ€“Tetrahydrofuranâ€“Ammonia System at Low Temperatures. Implications for Clathrate Hydrates and Outgassing on Titan. ACS Earth and Space Chemistry, 2018, 2, 135-146.	2.7	12
9	Salting-out phenomenon induced by the clathrate hydrates formation at high-pressure. Journal of Physics: Conference Series, 2017, 950, 042042.	0.4	8
10	Characterization of Salting-Out Processes during CO₂-Clathrate Formation Using Raman Spectroscopy: Planetological Application. Spectroscopy Letters, 2012, 45, 407-412.	1.0	5
11	Experimental Petrology to Understand Europa's Crust. Journal of Geophysical Research E: Planets, 2019, 124, 2660-2678.	3.6	5
12	Detection of Potential Lipid Biomarkers in Oxidative Environments by Raman Spectroscopy and Implications for the ExoMars 2020-Raman Laser Spectrometer Instrument Performance. Astrobiology, 2020, 20, 405-414.	3.0	5
13	Characterization of NH4-montmorillonite under conditions relevant to Ceres. Applied Clay Science, 2021, 209, 106137.	5.2	4
14	Thermal Properties of the H₂Oâ€“CO₂â€“Na₂CO₃/CH₃OH/NH₃ Systems at Low Temperatures and Pressures up to 50 MPa. ACS Earth and Space Chemistry, 2021, 5, 2626-2637.	2.7	4
15	Raman spectroscopic peculiarities of Icelandic poorly crystalline minerals and their implications for Mars exploration. Scientific Reports, 2022, 12, 5640.	3.3	4
16	Can Halophilic and Psychrophilic Microorganisms Modify the Freezing/Melting Curve of Cold Salty Solutions? Implications for Mars Habitability. Astrobiology, 2020, 20, 1067-1075.	3.0	2
17	Thermal conductivity measurements of macroscopic frozen salt ice analogues of Jovian icy moons in support of the planned JUICE mission. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4166-4179.	4.4	2
18	Interiors of Icy Moons from an Astrobiology Perspective: Deep Oceans and Icy Crusts. , 2015, , 459-487.		1

#	ARTICLE	IF	CITATIONS
19	Characterizing Interstellar Medium, Planetary Surface and Deep Environments by Spectroscopic Techniques Using Unique Simulation Chambers at Centro de Astrobiologia (CAB). Life, 2019, 9, 72.	2.4	1
20	Low-Temperature High-Pressure Chemistry of Ammonia and Methanol Aqueous Solutions in the Presence of Different Carbon Sources: Application to Icy Bodies. ACS Earth and Space Chemistry, 2022, 6, 1482-1494.	2.7	0