

# Victoria Muñoz-Iglesias

## List of Publications by Year in descending order

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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	Raman spectroscopic peculiarities of Icelandic poorly crystalline minerals and their implications for Mars exploration. <i>Scientific Reports</i> , 2022, 12, 5640.	3.3	4
2	Thermal conductivity measurements of macroscopic frozen salt ice analogues of Jovian icy moons in support of the planned JUICE mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4166-4179.	4.4	2
3	Low-Temperature High-Pressure Chemistry of Ammonia and Methanol Aqueous Solutions in the Presence of Different Carbon Sources: Application to Icy Bodies. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1482-1494.	2.7	0
4	Characterization of NH <sub>4</sub> -montmorillonite under conditions relevant to Ceres. <i>Applied Clay Science</i> , 2021, 209, 106137.	5.2	4
5	Thermal Properties of the H <sub>2</sub> O-CO <sub>2</sub> -Na <sub>2</sub> CO <sub>3</sub> /CH <sub>3</sub> OH/NH <sub>3</sub> Systems at Low Temperatures and Pressures up to 50 MPa. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2626-2637.	2.7	4
6	Can Halophilic and Psychrophilic Microorganisms Modify the Freezing/Melting Curve of Cold Salty Solutions? Implications for Mars Habitability. <i>Astrobiology</i> , 2020, 20, 1067-1075.	3.0	2
7	Constraining the preservation of organic compounds in Mars analog nontronites after exposure to acid and alkaline fluids. <i>Scientific Reports</i> , 2020, 10, 15097.	3.3	15
8	Fingerprinting molecular and isotopic biosignatures on different hydrothermal scenarios of Iceland, an acidic and sulfur-rich Mars analog. <i>Scientific Reports</i> , 2020, 10, 21196.	3.3	15
9	Detection of Potential Lipid Biomarkers in Oxidative Environments by Raman Spectroscopy and Implications for the ExoMars 2020-Raman Laser Spectrometer Instrument Performance. <i>Astrobiology</i> , 2020, 20, 405-414.	3.0	5
10	Rapid Formation of Clathrate Hydrate From Liquid Ethane and Water Ice on Titan. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086265.	4.0	19
11	Experimental Petrology to Understand Europa's Crust. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2660-2678.	3.6	5
12	Characterizing Interstellar Medium, Planetary Surface and Deep Environments by Spectroscopic Techniques Using Unique Simulation Chambers at Centro de Astrobiología (CAB). <i>Life</i> , 2019, 9, 72.	2.4	1
13	Phase Diagram of the Ternary Water-Tetrahydrofuran-Ammonia System at Low Temperatures. Implications for Clathrate Hydrates and Outgassing on Titan. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 135-146.	2.7	12
14	Salting-out phenomenon induced by the clathrate hydrates formation at high-pressure. <i>Journal of Physics: Conference Series</i> , 2017, 950, 042042.	0.4	8
15	Interiors of Icy Moons from an Astrobiology Perspective: Deep Oceans and Icy Crusts. , 2015, , 459-487.		1
16	Raman spectroscopy as a tool to study the solubility of CO <sub>2</sub> in magnesium sulphate brines: application to the fluids of Europa's cryomagmatic reservoirs. <i>European Journal of Mineralogy</i> , 2014, 25, 735-743.	1.3	13
17	Conspicuous assemblages of hydrated minerals from the H <sub>2</sub> O-MgSO <sub>4</sub> -CO <sub>2</sub> system on Jupiter's Europa satellite. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 466-475.	3.9	14
18	pH and Salinity Evolution of Europa's Brines: Raman Spectroscopy Study of Fractional Precipitation at 1 and 300 Bar. <i>Astrobiology</i> , 2013, 13, 693-702.	3.0	29

#	ARTICLE	IF	CITATIONS
19	Quantitative Raman spectroscopy as a tool to study the kinetics and formation mechanism of carbonates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 116, 26-30.	3.9	21
20	Characterization of Salting-Out Processes during CO <sub>2</sub> -Clathrate Formation Using Raman Spectroscopy: Planetological Application. <i>Spectroscopy Letters</i> , 2012, 45, 407-412.	1.0	5