

Eva Mateo-Marti

List of Publications by Year in descending order

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34
papers

708
citations

567281

15
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

940
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ adsorption capacities of amine-functionalized microporous silica nanoparticles. <i>Reactive and Functional Polymers</i> , 2022, 170, 105100.	4.1	11
2	HCN-derived polymers from thermally induced polymerization of diaminomaleonitrile: A non-enzymatic peroxide sensor based on prebiotic chemistry. <i>European Polymer Journal</i> , 2022, 162, 110897.	5.4	9
3	Dehydration rate of the glycine•MgSO ₄ •5H ₂ O complex and the stability of glycine expelled from the complex by in situ Raman spectroscopy under Mars•relevant conditions. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 724-734.	2.5	2
4	Study of the Stability of Gly•MgSO ₄ •5H ₂ O under Simulated Martian Conditions by <i>in Situ</i> Raman Spectroscopy. <i>Astrobiology</i> , 2022, 22, 75-86.	3.0	3
5	Tuning the Morphology in the Nanoscale of NH ₄ CN Polymers Synthesized by Microwave Radiation: A Comparative Study. <i>Polymers</i> , 2022, 14, 57.	4.5	7
6	An XPS study of HCN-derived films on pyrite surfaces: a prebiotic chemistry standpoint towards the development of protective coatings. <i>RSC Advances</i> , 2021, 11, 20109-20117.	3.6	12
7	A Comprehensive Review of HCN-Derived Polymers. <i>Processes</i> , 2021, 9, 597.	2.8	29
8	A Lizardite•HCN Interaction Leading the Increasing of Molecular Complexity in an Alkaline Hydrothermal Scenario: Implications for Origin of Life Studies. <i>Life</i> , 2021, 11, 661.	2.4	5
9	APTES-Based Silica Nanoparticles as a Potential Modifier for the Selective Sequestration of CO ₂ Gas Molecules. <i>Nanomaterials</i> , 2021, 11, 2893.	4.1	11
10	Ar ⁺ ion bombardment dictates glycine adsorption on pyrite (1 0 0) surface: X-ray photoemission spectroscopy and DFT approach. <i>Applied Surface Science</i> , 2020, 530, 147182.	6.1	6
11	2-D organization of silica nanoparticles on gold surfaces: CO ₂ marker detection and storage. <i>RSC Advances</i> , 2020, 10, 31758-31764.	3.6	6
12	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
13	A dual perspective on the microwave-assisted synthesis of HCN polymers towards the chemical evolution and design of functional materials. <i>Scientific Reports</i> , 2020, 10, 22350.	3.3	15
14	Pyrite-induced uv-photocatalytic abiotic nitrogen fixation: implications for early atmospheres and Life. <i>Scientific Reports</i> , 2019, 9, 15311.	3.3	13
15	Characterizing Interstellar Medium, Planetary Surface and Deep Environments by Spectroscopic Techniques Using Unique Simulation Chambers at Centro de Astrobiologia (CAB). <i>Life</i> , 2019, 9, 72.	2.4	1
16	Defects on a pyrite(100) surface produce chemical evolution of glycine under inert conditions: experimental and theoretical approaches. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24535-24542.	2.8	22
17	Ultraviolet Irradiation on a Pyrite Surface Improves Triglycine Adsorption. <i>Life</i> , 2018, 8, 50.	2.4	5
18	Sulfur amino acids and alanine on pyrite (100) by X-ray photoemission spectroscopy: Surface or molecular role?. <i>Applied Surface Science</i> , 2017, 414, 303-312.	6.1	11

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19	Pyrite surface environment drives molecular adsorption: cystine on pyrite(100) investigated by X-ray photoemission spectroscopy and low energy electron diffraction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27219-27225.	2.8	24
20	Spectroscopic study of cystine adsorption on pyrite surface: From vacuum to solution conditions. <i>Chemical Physics</i> , 2015, 458, 92-98.	1.9	19
21	Planetary Atmosphere and Surfaces Chamber (PASC): A Platform to Address Various Challenges in Astrobiology. <i>Challenges</i> , 2014, 5, 213-223.	1.7	12
22	UV irradiation study of a tripeptide isolated in an argon matrix: A tautomerism process evidenced by infrared and X-ray photoemission spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 109, 247-252.	3.9	9
23	The resistance of the lichen <i>Circinaria gyrosa</i> (nom. provis.) towards simulated Mars conditions—a model test for the survival capacity of an eukaryotic extremophile. <i>Planetary and Space Science</i> , 2012, 72, 102-110.	1.7	35
24	Protection of chemolithoautotrophic bacteria exposed to simulated Mars environmental conditions. <i>Icarus</i> , 2010, 209, 482-487.	2.5	47
25	CH ₄ /N ₂ /H ₂ -spark hydrophobic tholins: A systematic approach to the characterisation of tholins. Part II. <i>Icarus</i> , 2009, 204, 672-680.	2.5	30
26	Ultraviolet Photostability of Adenine on Gold and Silicon Surfaces. <i>Astrobiology</i> , 2009, 9, 573-579.	3.0	7
27	Stability of liquid saline water on present day Mars. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	93
28	Nucleic acid interactions with pyrite surfaces. <i>Chemical Physics</i> , 2008, 352, 11-18.	1.9	19
29	CH ₄ /N ₂ /H ₂ spark hydrophilic tholins: A systematic approach to the characterization of tholins. <i>Icarus</i> , 2008, 198, 232-241.	2.5	27
30	Do peptide nucleic acids form self-assembled monolayers on pyrite surfaces?. <i>Surface Science</i> , 2007, 601, 4195-4199.	1.9	11
31	A DNA biosensor based on peptide nucleic acids on gold surfaces. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1926-1932.	10.1	79
32	Near-UV Transmittance of Basalt Dust as an Analog of the Martian Regolith: Implications for Sensor Calibration and Astrobiology. <i>Sensors</i> , 2006, 6, 688-696.	3.8	30
33	A chamber for studying planetary environments and its applications to astrobiology. <i>Measurement Science and Technology</i> , 2006, 17, 2274-2280.	2.6	29
34	Self-Assembled Monolayers of Peptide Nucleic Acids on Gold Surfaces: A Spectroscopic Study. <i>Langmuir</i> , 2005, 21, 9510-9517.	3.5	54