

# Teresa Fornaro

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1295656/publications.pdf>

Version: 2024-02-01

20  
papers

809  
citations

623734

14  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1169  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mars Organic Molecule Analyzer (MOMA) Instrument: Characterization of Organic Material in Martian Sediments. <i>Astrobiology</i> , 2017, 17, 655-685.	3.0	185
2	Hydrogen-Bonding Effects on Infrared Spectra from Anharmonic Computations: Uracil-Water Complexes and Uracil Dimers. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4224-4236.	2.5	142
3	Dispersion corrected DFT approaches for anharmonic vibrational frequency calculations: nucleobases and their dimers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10112-10128.	2.8	92
4	MOMA: the challenge to search for organics and biosignatures on Mars. <i>International Journal of Astrobiology</i> , 2016, 15, 239-250.	1.6	52
5	Reliable vibrational wavenumbers for C=O and N-H stretchings of isolated and hydrogen-bonded nucleic acid bases. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8479-8490.	2.8	47
6	UV irradiation of biomarkers adsorbed on minerals under Martian-like conditions: Hints for life detection on Mars. <i>Icarus</i> , 2018, 313, 38-60.	2.5	44
7	Catalytic/Protective Properties of Martian Minerals and Implications for Possible Origin of Life on Mars. <i>Life</i> , 2018, 8, 56.	2.4	38
8	Infrared spectral investigations of UV irradiated nucleobases adsorbed on mineral surfaces. <i>Icarus</i> , 2013, 226, 1068-1085.	2.5	35
9	Adsorption of nucleic acid bases on magnesium oxide (MgO). <i>International Journal of Astrobiology</i> , 2013, 12, 78-86.	1.6	31
10	Toward Feasible and Comprehensive Computational Protocol for Simulation of the Spectroscopic Properties of Large Molecular Systems: The Anharmonic Infrared Spectrum of Uracil in the Solid State by the Reduced Dimensionality/Hybrid VPT2 Approach. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5313-5326.	2.5	28
11	Prebiotic synthesis of carboxylic acids, amino acids and nucleic acid bases from formamide under photochemical conditions. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	18
12	Binding of Nucleic Acid Components to the Serpentine-Hosted Hydrothermal Mineral Brucite. <i>Astrobiology</i> , 2018, 18, 989-1007.	3.0	18
13	Solid State Photochemistry of Hydroxylated Naphthalenes on Minerals: Probing Polycyclic Aromatic Hydrocarbon Transformation Pathways under Astrochemically-Relevant Conditions. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 977-1000.	2.7	16
14	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
15	Toward the design of alkynylimidazole fluorophores: computational and experimental characterization of spectroscopic features in solution and in poly(methyl methacrylate). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26710-26723.	2.8	13
16	Ultraviolet Photoprocessing of Glycine Adsorbed on Various Space-Relevant Minerals. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	10
17	Detection and Degradation of Adenosine Monophosphate in Perchlorate-Spiked Martian Regolith Analog, by Deep-Ultraviolet Spectroscopy. <i>Astrobiology</i> , 2021, 21, 511-525.	3.0	10
18	UV Irradiation and Near Infrared Characterization of Laboratory Mars Soil Analog Samples. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	8

#	ARTICLE	IF	CITATIONS
19	Development of extraction protocols for life detection biosensor-based instruments. Planetary and Space Science, 2013, 86, 75-79.	1.7	4
20	Role of Mineral Surfaces in Prebiotic Processes and Space-Like Conditions. Advances in Astrobiology and Biogeophysics, 2019, , 183-204.	0.6	3