

Olivier Poch

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,596
citations

257450

24
h-index

302126

39
g-index

60
all docs

60
docs citations

60
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17.	5.1	149
2	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. <i>Science</i> , 2020, 367, .	12.6	115
3	OSIRIS observations of meter-sized exposures of H ₂ O ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments. <i>Astronomy and Astrophysics</i> , 2015, 583, A25.	5.1	97
4	Cometary Dust. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
5	Oxidants at the Surface of Mars: A Review in Light of Recent Exploration Results. <i>Astrobiology</i> , 2016, 16, 977-996.	3.0	83
6	Prebiotic-like chemistry on Titan. <i>Chemical Society Reviews</i> , 2012, 41, 5380.	38.1	82
7	Sublimation of water ice mixed with silicates and tholins: Evolution of surface texture and reflectance spectra, with implications for comets. <i>Icarus</i> , 2016, 267, 154-173.	2.5	73
8	Laboratory insights into the chemical and kinetic evolution of several organic molecules under simulated Mars surface UV radiation conditions. <i>Icarus</i> , 2014, 242, 50-63.	2.5	56
9	Space as a Tool for Astrobiology: Review and Recommendations for Experimentations in Earth Orbit and Beyond. <i>Space Science Reviews</i> , 2017, 209, 83-181.	8.1	54
10	Can laboratory tholins mimic the chemistry producing Titan's aerosols? A review in light of ACP experimental results. <i>Planetary and Space Science</i> , 2013, 77, 91-103.	1.7	51
11	Effect of Nontronite Smectite Clay on the Chemical Evolution of Several Organic Molecules under Simulated Martian Surface Ultraviolet Radiation Conditions. <i>Astrobiology</i> , 2015, 15, 221-237.	3.0	49
12	Infrared detection of aliphatic organics on a cometary nucleus. <i>Nature Astronomy</i> , 2020, 4, 500-505.	10.1	41
13	Chemical evolution of organic molecules under Mars-like UV radiation conditions simulated in the laboratory with the "Mars organic molecule irradiation and evolution" (MOMIE) setup. <i>Planetary and Space Science</i> , 2013, 85, 188-197.	1.7	39
14	VIS-NIR reflectance of water ice/regolith analogue mixtures and implications for the detectability of ice mixed within planetary regoliths. <i>Geophysical Research Letters</i> , 2015, 42, 6205-6212.	4.0	36
15	Sublimation of ice-tholins mixtures: A morphological and spectro-photometric study. <i>Icarus</i> , 2016, 266, 288-305.	2.5	35
16	Production yields of organics of astrobiological interest from H ₂ O-NH ₃ hydrolysis of Titan's tholins. <i>Planetary and Space Science</i> , 2012, 61, 114-123.	1.7	34
17	The PROCESS Experiment: Amino and Carboxylic Acids Under Mars-Like Surface UV Radiation Conditions in Low-Earth Orbit. <i>Astrobiology</i> , 2012, 12, 436-444.	3.0	33
18	A porosity gradient in 67P/C-G nucleus suggested from CONSERT and SESAME-PP results: an interpretation based on new laboratory permittivity measurements of porous icy analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S89-S98.	4.4	29

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19	Remote Sensing of Potential Biosignatures from Rocky, Liquid, or Icy (Exo)Planetary Surfaces. <i>Astrobiology</i> , 2017, 17, 231-252.	3.0	29
20	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	29
21	The fate of aerosols on the surface of Titan. <i>Faraday Discussions</i> , 2010, 147, 419.	3.2	28
22	The PROCESS Experiment: An Astrochemistry Laboratory for Solid and Gaseous Organic Samples in Low-Earth Orbit. <i>Astrobiology</i> , 2012, 12, 412-425.	3.0	28
23	Simulated asteroid materials based on carbonaceous chondrite mineralogies. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2067-2082.	1.6	28
24	The SCITEAS experiment: Optical characterizations of sublimating icy planetary analogues. <i>Planetary and Space Science</i> , 2015, 109-110, 106-122.	1.7	26
25	Decimetre-scaled spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S287-S303.	4.4	26
26	Thermal fracturing on comets. <i>Astronomy and Astrophysics</i> , 2018, 610, A76.	5.1	24
27	Experimental characterization of the opposition surge in fine-grained water ice and high albedo ice analogs. <i>Icarus</i> , 2016, 264, 109-131.	2.5	23
28	0.2 to 10 keV electrons interacting with water ice: Radiolysis, sputtering, and sublimation. <i>Planetary and Space Science</i> , 2018, 155, 91-98.	1.7	23
29	Polarimetry of Water Ice Particles Providing Insights on Grain Size and Degree of Sintering on Icy Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2564-2584.	3.6	19
30	Ultraviolet-photon fingerprints on chondritic large organic molecules. <i>Geochemical Journal</i> , 2019, 53, 21-32.	1.0	19
31	Characterization of the permittivity of controlled porous water ice-dust mixtures to support the radar exploration of icy bodies. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2426-2443.	3.6	17
32	The Photochemistry on Space Station (PSS) Experiment: Organic Matter under Mars-like Surface UV Radiation Conditions in Low Earth Orbit. <i>Astrobiology</i> , 2019, 19, 1037-1052.	3.0	16
33	Bidirectional reflectance of laboratory cometary analogues to interpret the spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2017, 148, 1-11.	1.7	15
34	Bidirectional reflectance and VIS-NIR spectroscopy of cometary analogues under simulated space conditions. <i>Planetary and Space Science</i> , 2017, 145, 14-27.	1.7	14
35	Visible and near-infrared reflectance of hyperfine and hyperporous particulate surfaces. <i>Icarus</i> , 2021, 357, 114141.	2.5	13
36	Surface charging of thick porous water ice layers relevant for ion sputtering experiments. <i>Planetary and Space Science</i> , 2016, 126, 63-71.	1.7	11

