Jerome Lasne

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6881603/publications.pdf

Version: 2024-02-01

30	572	516710 16	610901 24
papers	citations	h-index	g-index

34	34	34	814
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxidants at the Surface of Mars: A Review in Light of Recent Exploration Results. Astrobiology, 2016, 16, 977-996.	3.0	83
2	Probing model interstellar grain surfaces with small molecules. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1826-1833.	4.4	49
3	HCl adsorption on ice at low temperature: a combined X-ray absorption, photoemission and infrared study. Physical Chemistry Chemical Physics, 2011, 13, 7142.	2.8	42
4	Photodesorption and physical properties of CO ice as a function of temperature. Astronomy and Astrophysics, 2016, 589, A19.	5.1	38
5	Spontaneous electric fields in solid carbon monoxide. Physical Chemistry Chemical Physics, 2015, 17, 30177-30187.	2.8	27
6	Adsorption of Acetaldehyde on Ice As Seen from Computer Simulation and Infrared Spectroscopy Measurements. Langmuir, 2012, 28, 4198-4207.	3.5	25
7	Analysis of carbon and nitrogen signatures with laser-induced breakdown spectroscopy; the quest for organics under Mars-like conditions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 131, 8-17.	2.9	25
8	Photochemistry of carbon monoxide and methanol in water and nitric acid hydrate ices: A NEXAFS study. Physical Chemistry Chemical Physics, 2010, 12, 10865.	2.8	24
9	Uptake and surface chemistry of SO2 on natural volcanic dusts. Atmospheric Environment, 2019, 217, 116942.	4.1	23
10	ENABLING STAR FORMATION VIA SPONTANEOUS MOLECULAR DIPOLE ORIENTATION IN ICY SOLIDS. Astrophysical Journal, 2016, 832, 1.	4.5	20
11	Influence of Water in the UV-Induced Chemistry of Methanol in the Solid Phase. Journal of Physical Chemistry A, 2009, 113, 8979-8984.	2.5	18
12	Investigations into the nature of spontelectrics: nitrous oxide diluted in xenon. Physical Chemistry Chemical Physics, 2014, 16, 23843-23853.	2.8	17
13	A review of recent progress in understanding the spontelectric state of matter. European Physical Journal D, 2017, 71, 1.	1.3	17
14	Ozone Uptake by Clay Dusts under Environmental Conditions. ACS Earth and Space Chemistry, 2018, 2, 904-914.	2.7	17
15	The irradiation of ammonia ice studied by near edge x-ray absorption spectroscopy. Journal of Chemical Physics, 2009, 131, 154308.	3.0	16
16	Interaction of acetone, hydroxyacetone, acetaldehyde and benzaldehyde with the surface of water ice and HNO₃·3H₂O ice. Physical Chemistry Chemical Physics, 2012, 14, 697-704.	2.8	16
17	Spontaneously electrical solids in a new light. Physical Chemistry Chemical Physics, 2015, 17, 20971-20980.	2.8	16
18	Laboratory surface astrochemistry experiments. Review of Scientific Instruments, 2015, 86, 055103.	1.3	13

#	Article	IF	Citations
19	Dipole-Oriented Molecular Solids Can Undergo a Phase Change and Still Maintain Electrical Polarization. Journal of Physical Chemistry C, 2016, 120, 24130-24136.	3.1	13
20	Spontaneous polarization of solid CO on water ices and some astrophysical implications. Physical Chemistry Chemical Physics, 2016, 18, 5159-5171.	2.8	13
21	Wannier-Mott Excitons in Nanoscale Molecular Ices. Physical Review Letters, 2017, 119, 157703.	7.8	12
22	Reply to the â€˜Comment on â€œHCl adsorption on ice at low temperature: a combined X-ray absorption, photoemission and infrared studyâ€â€™ by J. P. Devlin and H. Kang, Phys. Chem. Chem. Phys., 2012,14, DOI: 10.1039/c1cp22007a. Physical Chemistry Chemical Physics, 2012, 14, 1050-1053.	2.8	10
23	Surface Science Investigations of Icy Mantle Growth on Interstellar Dust Grains in Cooling Environments. ACS Earth and Space Chemistry, 2019, 3, 1915-1931.	2.7	10
24	The optical absorption spectra of spontaneously electrical solids: the case of nitrous oxide. Physical Chemistry Chemical Physics, 2019, 21, 1190-1197.	2.8	7
25	Dimerization of Uracil in a Simulated Mars-like UV Radiation Environment. Astrobiology, 2020, 20, 1363-1376.	3.0	7
26	NEXAFS : a unique tool to follow the photochemistry of small organic molecules in condensed water. Journal of Physics: Conference Series, 2011, 261, 012008.	0.4	6
27	Heterogeneous Physical Chemistry in the Atmospheres of Earth, Mars, and Venus: Perspectives for Rocky Exoplanets. ACS Earth and Space Chemistry, 2021, 5, 149-162.	2.7	3
28	Proton transfer reactions between nitric acid and acetone, hydroxyacetone, acetaldehyde and benzaldehyde in the solid phase. Physical Chemistry Chemical Physics, 2012, 14, 15715.	2.8	2
29	Photo-enhanced uptake of SO₂ on Icelandic volcanic dusts. Environmental Science Atmospheres, 2022, 2, 375-387.	2.4	2
30	Acceleration of ion recombination reaction rates in cold dark clouds through spontaneous polarization charge on CO ice mantles. Proceedings of the International Astronomical Union, 2019, 15, 390-391.	0.0	0